Operating Instructions

STEREO CLD CASSETTE DECK RECEIVER

CL-J35LD/CL-J75LD

SPEAKER SYSTEM

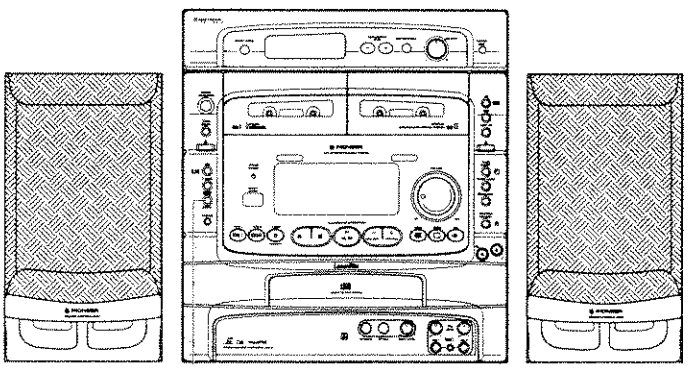
S-J750V

LaserDisc

COMPACT disc DIGITAL AUDIO

LASER DISC

PAL/NTSC



DEMO

The illustration shows CL-J75LD.

DEMO MODE

To select the demonstration mode, press the SOURCE DIRECT (DEMO) button when the power is not turned on. The power will automatically come on, and the unit will demonstrate its various functions on the display.

- If CD and LD players are connected, you can enjoy playback of these components.
- To stop the demonstration mode, press the POWER switch or press the SOURCE DIRECT button.

THE POWER SWITCH IS SECONDARY CONNECTED AND THEREFORE DOES NOT SEPARATE THE UNIT FROM MAINS POWER IN STANDBY POSITION.

"This product complies with the Radio Interference requirements of the EC (European Community) Directive 87/308/EEC."

Thank you for buying this Pioneer product.
Please read through these operating instructions so you will know how to operate your model properly. After you have finished reading the instructions, put them away in a safe place for future reference.
In some countries or regions, the shape of the power plug and power outlet may sometimes differ from that shown in the explanatory drawings. However, the method of connecting and operating the unit is the same.

WARNING: TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

PIONEER®

The Art of Entertainment

IMPORTANT 1

The lightning flash with arrowhead, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN

CAUTION:
TO PREVENT THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

IMPORTANT 2

FOR USE IN THE UNITED KINGDOM

The wires in this mains lead are coloured in accordance with the following code:

Blue : Neutral
Brown : Live

If the plug provided is unsuitable for your socket outlets, the plug must be cut off and a suitable plug fitted.

The cut-off plug should be disposed of and must not be inserted into any 13 amp socket as this can result in electric shock. The plug or adaptor of the distribution panel should be provided with 5 amp fuse. As the colours of the wires in the mains lead of this appliance may not correspond with coloured markings identifying the terminals in your plug, proceed as follows:

The wire which is coloured blue must be connected to the terminal which is marked with the letter N or coloured black.
The wire which is coloured brown must be connected to the terminal which is marked with the letter L or coloured red.

Do not connect either wire to the earth terminal of a three pin plug.

NOTE
After replacing or changing a fuse, the fuse cover in the plug must be replaced with a fuse cover which corresponds to the colour of the insert in the base of the plug or the word that is embossed on the base of the plug, and the appliance must not be used without a fuse cover. If lost, replacement fuse covers can be obtained from your dealer.
Only 5 A fuses approved by B.S.I. or A.S.T.A. to B.S. 1362 should be used.

IMPORTANT

CAUTION

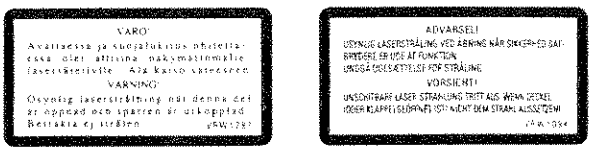
This product contains a laser diode of higher class than 1. To ensure continued safety, do not remove any covers or attempt to gain access to the inside of the product.
Refer all servicing to qualified personnel.

The following caution labels appear on your unit.

Location: On the rear panel of the unit

On the bonnet of the unit

U.K. model



European model

■ This unit may be used with LaserDiscs, Compact Discs, and Compact Discs with Video bearing the following symbols:

(LASERDISC SYSTEM)/(LaserVision Disc)*

This is the unified symbol mark of LASERDISC (LaserVision videodisc).

* LaserDisc players and discs which bear this symbol and use the same television system, are mutually compatible.

(Compact Disc)

(CD VIDEO SYSTEM)**

(8 cm Compact Disc)

** CD Video discs are recorded with subcodes, which are the non-audio recordings of TOC data such as track numbers, index numbers, etc. However, there are some discs without these marks.

Only one disc can be loaded at any one time. Loading a LaserVision Disc, a Compact Disc, a 8 cm Compact Disc or a Compact Disc with Video on top of one another may result in breakdown, or in scratching of the discs. Please only load one disc at a time.

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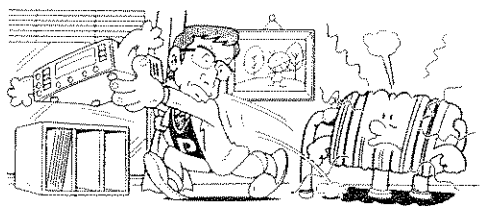
CAUTIONS REGARDING HANDLING

Location

Install the unit in a well-ventilated location where it will not be exposed to high temperatures or humidity.
Do not install the unit in a location which is exposed to direct sunlight, or near hot appliances or radiators. Excessive heat can adversely affect the cabinet and internal components. Installation of the unit in a damp or dusty environment may result in a malfunction or accident. (Also avoid installation near cookers etc., where the unit may be exposed to smoke from oil, steam or heat.)

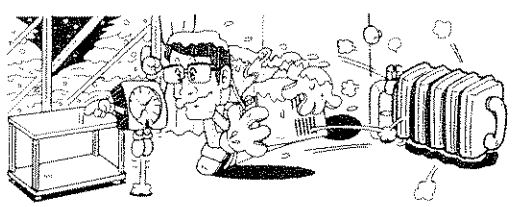


Precautions Regarding Installation

- Placing and using the unit for long periods on heatgenerating sources such as amplifiers will affect performance. Avoid placing the unit on heatgenerating sources.
- Install the unit as far away as possible from TV sets. The unit installed in close proximity to such equipment may cause noise or degradation of the picture. Such noise may be particularly noticeable when an indoor antenna is used. In such a case, make use of an outdoor antenna, or turn off the power to the unit.

Condensation

When the unit is brought into a warm room from previously cold conditions or when the room temperature is suddenly increased, condensation may form inside and the unit may not be able to attain its full performance. In cases like this, allow the unit to stand for about an hour or raise the room temperature gradually.



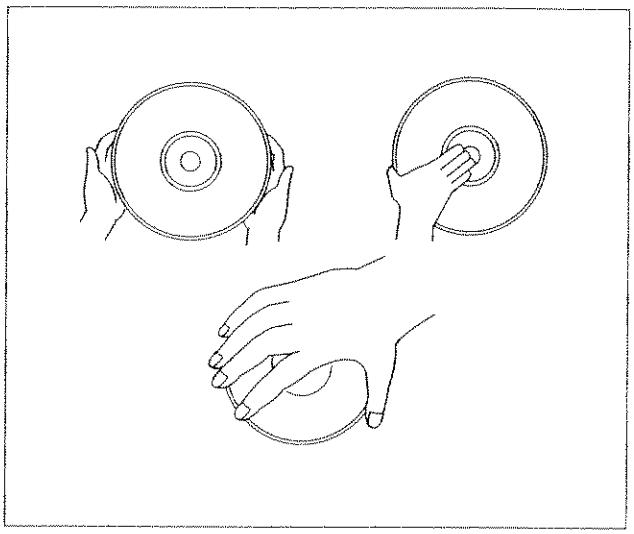
STRIPE PATTERNS APPEARING ON A TV PROGRAM

Stripe patterns may appear during a TV program if the player is turned on, depending on the quality of reception of the TV station. This is neither a malfunction of the television nor the player. If stripes appear while watching the TV, or when watching the TV for long periods of time, turn the player off.

CARE OF DISCS

How to hold discs

When loading or removing discs, try not to touch their playing surfaces.



Cleaning

Fingerprints or other dirt on the disc may affect sound and picture quality.

To clean your discs, use a soft clean cloth to wipe them. If necessary, moisten a soft cloth with diluted neutral detergent to remove heavy dirt or fingerprints.

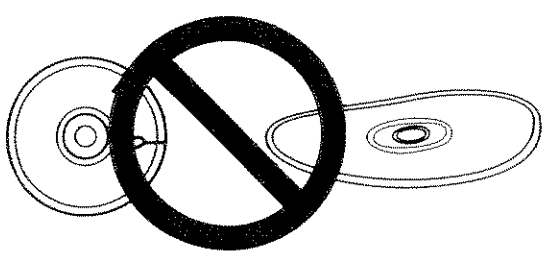
Do not wipe in a circular direction.

Gently wipe from the inside toward the outer edge.

Discs must not be cleaned with record cleaning sprays, or static prevention sprays, etc. Also do not use volatile liquids such as benzine, or thinner, etc.

NEVER PLAY CRACKED OR WARPED DISCS.

■ The disc revolves on the player at a high speed when it is played. Never play a cracked, scratched or warped disc. This may damage the player or cause it to malfunction.



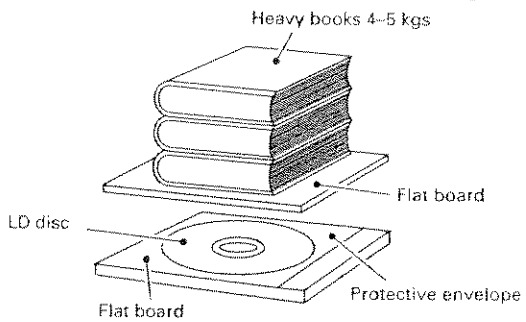
After using discs, store them upright

After playing a disc, always remove it from the player and return it to its jacket. Then store it standing upright away from heat and humidity.

- Store discs carefully. If you store discs at an angle, or stacked on top of each other, discs may become warped even when in their jackets.
- Do not leave discs in locations such as the seat of car, which may become excessively hot.

If an LD disc is warped...

If an LD disc is warped, put the disc into its protective envelope, and then place it between two flat boards. Then place heavy books on top of the boards so that approximately 4 to 5 kgs is applied. Leave the disc like this for a day or so. This may correct the warp.



CAUTION WHEN USING THE DISC
All rights reserved.
Unauthorized public performance, broadcasting or copying is a violation of applicable laws.

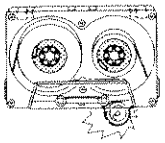
- **Never move the unit when it is operating.**
  During unit operation, the disc moves at very high speed; never attempt to lift or move the unit while it is operating, since it may cause damage to the disc.

When moving the component:
When transferring the unit to a new dwelling, or otherwise packing it for moving, first be sure to remove any disc loaded and return the disc tray to the closed position. Then turn off the power, confirm that the display shows either "--:--" or the current time, then disconnect the power plug from its outlet. If the display shows "-OFF-", do not disconnect the power cord.

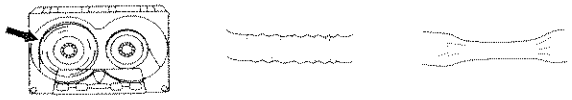
HANDLING OF CASSETTE TAPES

For the Best Results with Cassette Tapes

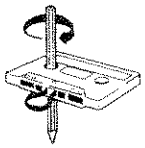
Cassette tapes are more delicate than you might think!
Please note the following handling precautions, since internal tape tangling and other damage can easily result to your tapes:



- Avoid tapes with recording times longer than ninety minutes (C-90). Longer tapes (e.g., C-100, C-120, etc.) are extremely thin, making them easily affected by static electricity, and thus more subject to jamming and tangling inside the cassette deck.
- Avoid using tapes which have been wound incorrectly, tapes which have accordion folds, or stretched tapes, since they are more subject to tangles and jamming.



- Use a pencil to wind up any loose slack before using a cassette.



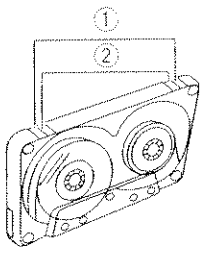


Fig.1

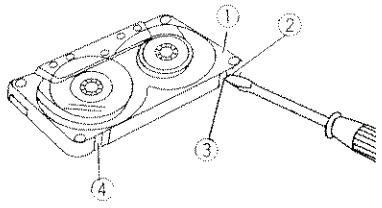


Fig.2

Auto Tape Selector Function

The auto tape-selector function utilizes the small holes on the edge of the tape cassette to determine what kind of tape is being used, thus automatically setting the deck for the optimum recording bias and equalization.

Fig.1 Type II tape (High-Position/CrO_2)
① Accidental erasure prevention tabs
② Detection holes

To prevent accidental erasure of recordings:
Accidental erasure prevention tabs are provided on the edge of the tape cassette; use a screwdriver or other implement to break out these tabs if you wish to prevent the erasure of important recordings.

Fig.2
① Side A
② Erasure prevention tab for side A
③ Use screwdriver, etc.
④ Erasure prevention tab for side B

If you wish to record over a tape whose erasure prevention tabs have been broken, place a piece of strong cellophane tape over the holes.
Be especially careful with Type II tape cassettes, to avoid covering the tape detection holes.

Precautions during use of tapes
Many tapes include a short, non-recordable leader portion at the beginning of each side. Allow the tape to run five seconds or so before attempting to record at the beginning of a tape, in order to advance the tape beyond the leader portion. Also, before recording on a new tape, it is advisable to use the fast forward or rewind functions to wind the tape entirely from end to end; doing this will help prevent abnormal loads being placed on the tape deck due to uneven tape winding at the factory.

DISCS

LD GLOSSARY

Chapter number

Chapter numbers are used to indicate the boundaries of the sections on a disc, similar to the "chapters" in a book. If chapter numbers are recorded on a disc, it is so indicated on the jacket of the disc, etc. Chapter numbers can be used to search for desired chapters (Chapter Search).

Frame number

Frame numbers are the numbers assigned to each picture frame on a CAV disc. Frame numbers can be used to search for desired frames (Frame Search).

Time number

Time numbers indicate the time elapsed from the beginning of a CLV disc. Time numbers can be used to search for desired scenes (Time Search).

CDV/CD GLOSSARY

Track number

Track numbers indicate the boundaries of the sections, or "tracks" on a disc. Track numbers are assigned consistently throughout the audio part and video part of a CDV disc. Track numbers can be used to search for desired tracks (Track Search).

TOC

Every CD/CDV-type disc is provided with a section called TOC (Table of Contents) at the beginning of the disc. The TOC section is just like the table of contents of a book, and contains information on the contents (number of tracks, playing time, etc.) of the disc.

- Some LD discs are not provided with a TOC section.

LD DISCS

The CL-J35LD/CL-J75LD can play both LD Discs and Compact Discs. Unlike conventional phonograph records, these discs are played back from the inside edge out.
LD Discs are available as both active play discs and long play discs.

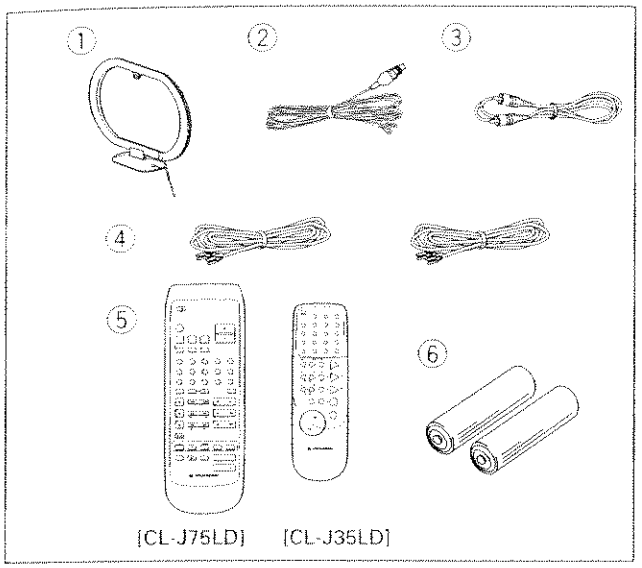
● ACTIVE PLAY (CAV) DISCS

Active play discs are played at constant angular velocity (CAV).

● LONG PLAY (CLV) DISCS

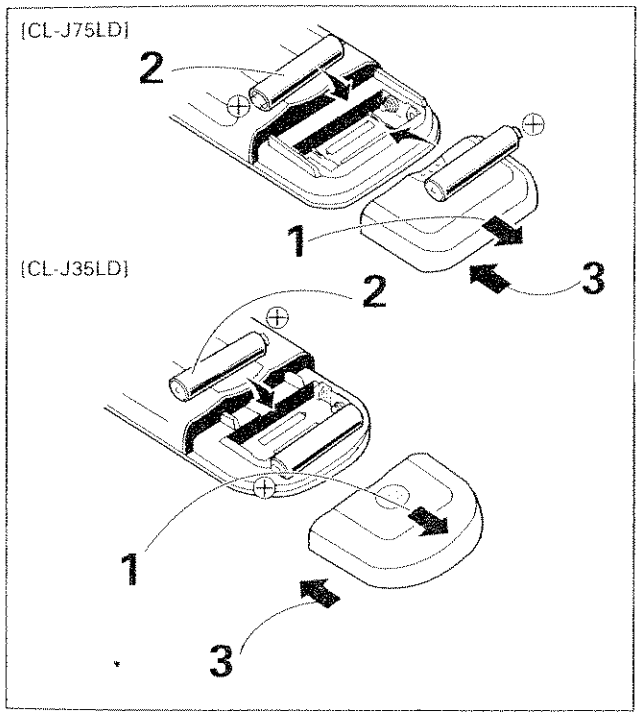
These discs are played back at constant linear velocity (CLV), and are therefore able to play for a longer time than active play discs.

CAUTION:
If analog audio discs with PAL system is played, no sound comes out. At this time, "ANALOGUE DISC NO SOUND" appears on the screen.



CONFIRM SUPPLIED ACCESSORIES

1. AM loop antenna
2. FM T-type antenna
3. Video cable (for connection to TV set)
4. Speaker cord (included with speakers) x 2
5. Remote control unit
6. Batteries x 2 (Size AAA/R03)



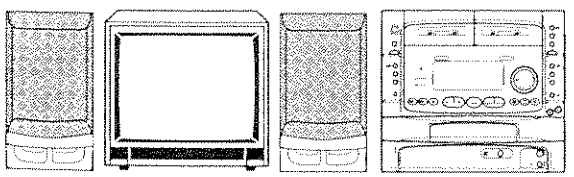
LOAD BATTERIES IN REMOTE CONTROL UNIT

1. **Press down on the battery compartment lid and slide in the direction of the arrow to open.**
2. **Insert new batteries, taking care to match the positive (+) and negative (–) polarities.**
   The batteries can be loaded most easily if you insert the negative (–) end first. Likewise, when removing batteries from the compartment, remove the positive (+) end first.
3. **Close the lid.**

Incorrect use of batteries may lead to leakage or rupture. Always be sure to follow these guidelines:

A. Always insert batteries into the battery compartment correctly matching the positive ⊕ and negative ⊖ polarities, as indicated inside the compartment.
B. Never mix new and used batteries.
C. Batteries of the same size may have different voltages, depending on their type. Do not mix different types of batteries.

To install a TV set



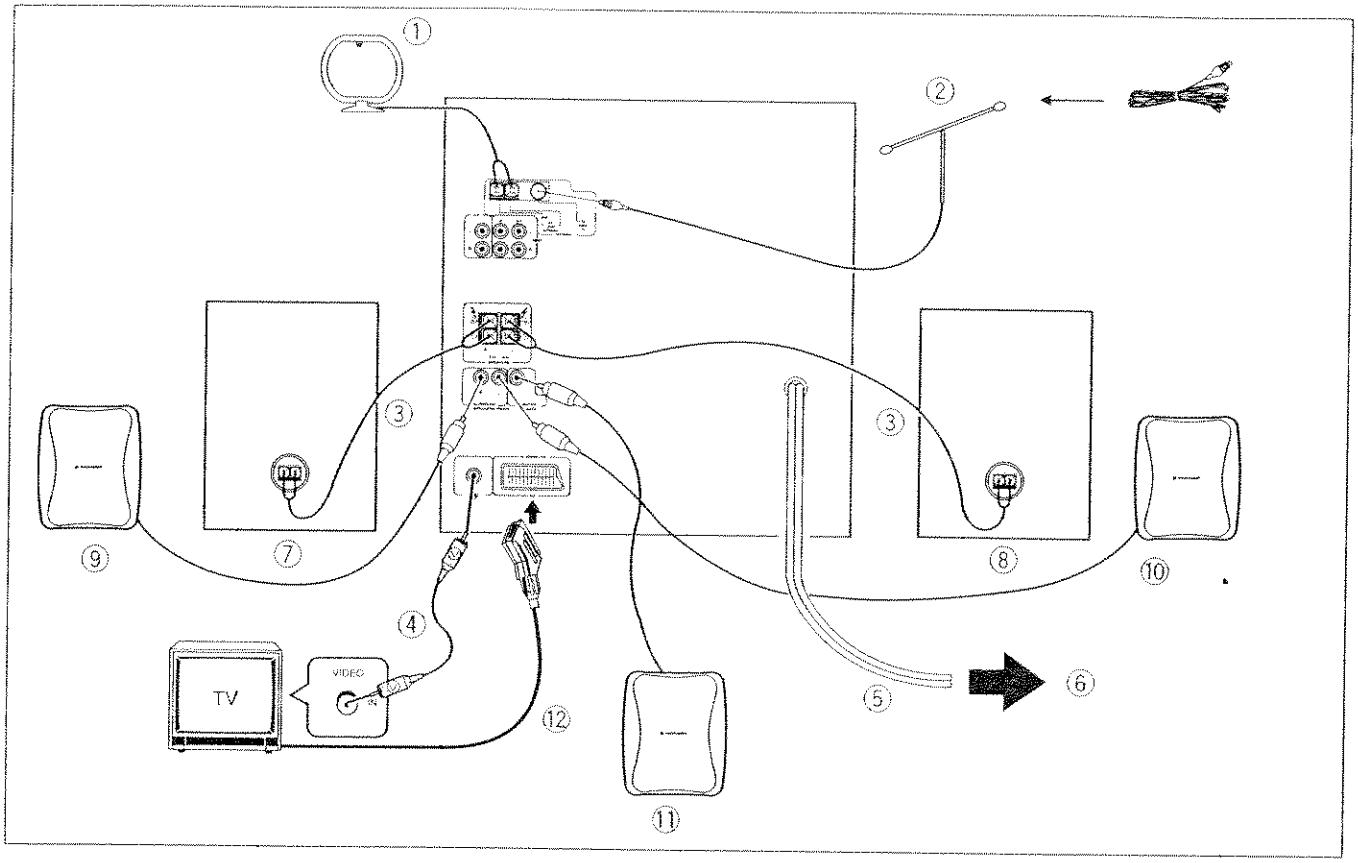
INSTALLATION

In order to achieve the best performance from your unit, following the installation instructions noted below.

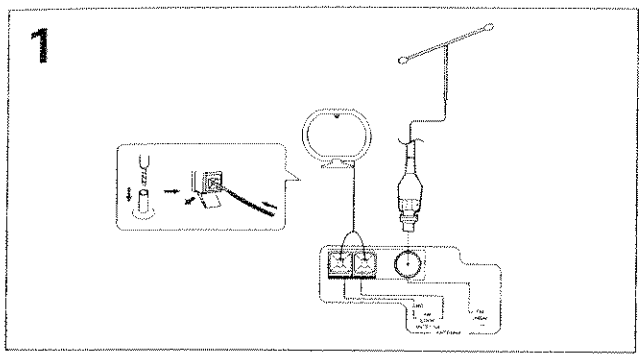
- For more enjoyment, it is recommended to install a TV set between the speakers. When the system is installed in this way, the sound from the speakers will appear to be coming from the center of the TV area.
- When installing this system near a TV, influence from the TV may cause noise to be heard from the speakers, or conversely, magnetic influence from the speakers might cause color distortion in the TV set. In either of these cases, try moving the TV 10 cm or farther away from this system.

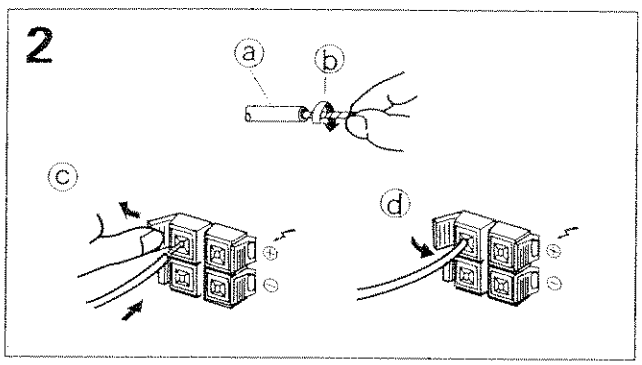
NOTE:
Never place a television set on top of this unit, since the television might fall, resulting in a dangerous accident.

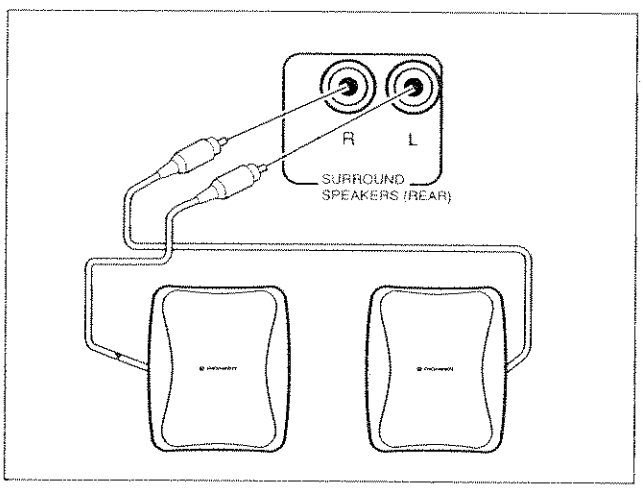
CONNECTIONS

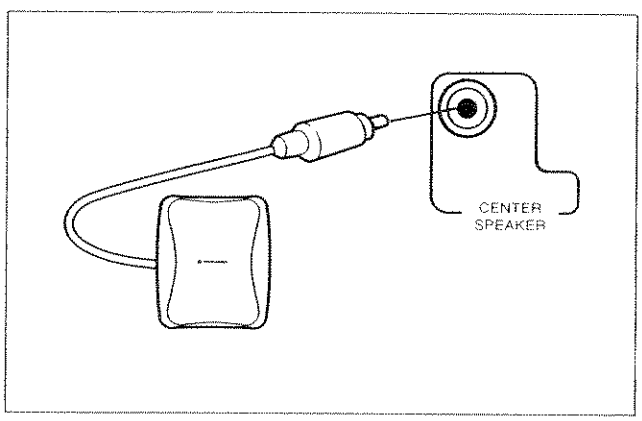


① AM loop antenna
② FM T-type antenna
③ Speaker cord
④ Video cable
⑤ Power cord
⑥ To an AC wall socket
⑦ Front speaker (R)
⑧ Front speaker (L)
⑨ Surround speaker (R) (CL-J75LD only)
⑩ Surround speaker (L) (CL-J75LD only)
⑪ Center speaker (CL-J75LD only)
⑫ Euroconnector cable









- Do not connect the power cord to a AC wall socket until all other connections have been completed.
- Always connect the proper antennas (AM/FM reception will not be possible if the antennas are not connected).

1. **Connect the AM loop antenna and the FM T-type antenna (see pages 8, 10).**
2. **Connect the speaker cords to the SPEAKERS terminal (no sound can be heard if the wires are not connected).**
   Connect the red cords to the "+" (red) terminals and the black cords to the "–" (black) terminals.

ⓐ Speaker cord
ⓑ Twist the wire strands.
ⓒ Press the tab back and insert the cord core into the terminal.
ⓓ Return the tab to its original position; check to be sure the cords are inserted firmly.

Connect the cords to the speakers nearly the same way.

NOTE:
Do not allow the conductors of the cords to project beyond the terminals and to come into contact with other conductors. A breakdown or failure may occur when conductors touch one another.

Precaution for the S-J750V:
Do not connect to any amplifier other than the one supplied with this system. Connection to any other amplifier may in rare cases result in smoke or fire.

Speaker impedance
Connect speaker systems with a nominal impedance of between 6 Ω and 16 Ω.

Surround Speaker Connection (CL-J75LD only)

Connect the plugs properly.

* The speakers shown in the illustration are the Surround Speaker S-P55 (sold separately).

Connect a speaker system having a nominal impedance of 16 Ω or more. Only speaker cord with RCA pin-jack connectors can be used.

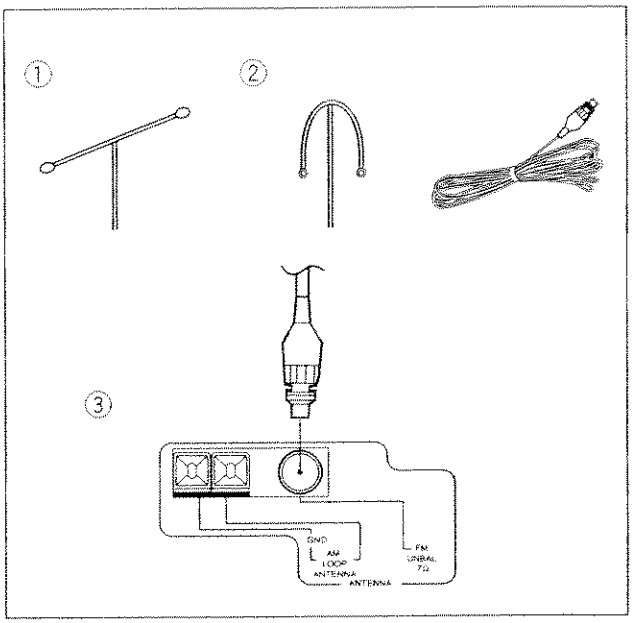
Center Speaker Connection (CL-J75LD only)

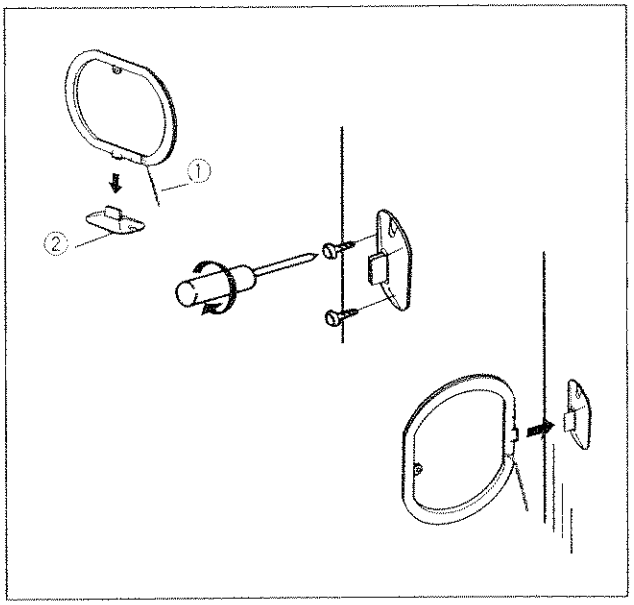
* The speaker shown in the illustration is the Center Speaker S-P5C (sold separately).

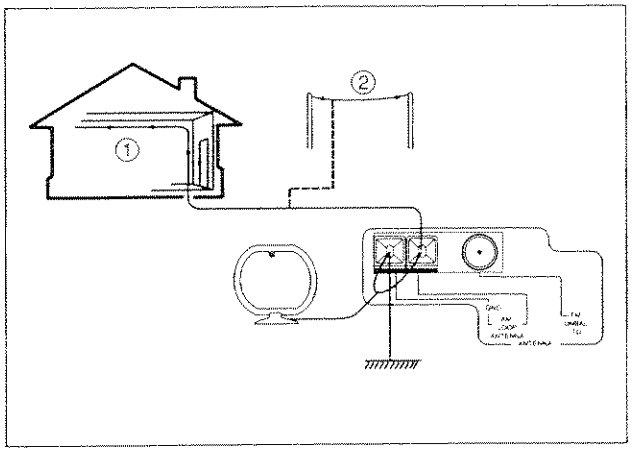
Speakers used with this system must have a nominal impedance of between 8 Ω and 16 Ω.

Only speaker cords with pin-jack connectors can be used.

3. **Use the accessory video cable to connect an AV television set (if the accessory cable is not connected, no picture will be seen from the LD player; see page 8).**
4. **Connect the power cord to a AC wall socket.**







ANTENNA CONNECTIONS

Radio reception is not possible unless the antenna is properly connected.

The strength of broadcast signals vary from one area to another. Signal propagation is especially poor in metropolitan areas, where there are many tall buildings, and in mountainous areas. Proper antenna installation is vital to good reception.

FM ANTENNA

FM Antenna Attachment

Connect the accessory FM T-type antenna to the FM terminal. Stretch the antenna out to its full length, and affix it to a wall, etc.

① Correct ② Wrong

External FM antenna installation

Use an external antenna when the signals from the station are weak and cannot be picked up by the accessory FM T-type antenna, or when the sound heard is accompanied by too much noise. Connect as in figure ③.

AM ANTENNA

Install the AM loop antenna away from the main unit in an area where it is not touching other metal objects. The antenna should be mounted as far away as possible from computers and televisions, since noise may result.

Setting Up the AM Antenna

- Insert the clip on the bottom of the antenna into the groove on the leg.
- Place the antenna on a level surface and rotate it to locate the orientation that yields the best reception.
- To permanently fix the antenna, screw the leg to a wall or something similar before assembling (fixing the antenna in the direction that gives the best reception).

① lead wire
② leg

External AM antenna

① Indoor AM antenna

Use a vinyl-coated wire (5 to 6 meters long). Secure one end to the AM terminal and the other end to a wall or other high location.

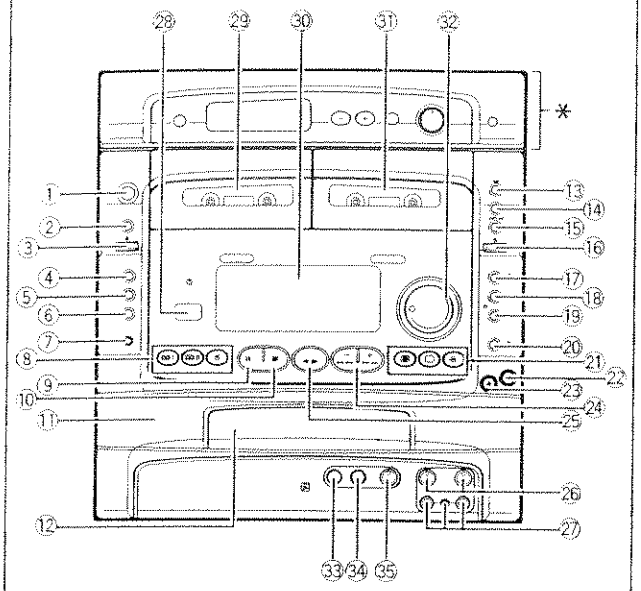
② Outdoor AM antenna

If reception is still poor even when a lead antenna has been stretched out indoors, stretch out a vinyl-coated wire and secure it outdoors.

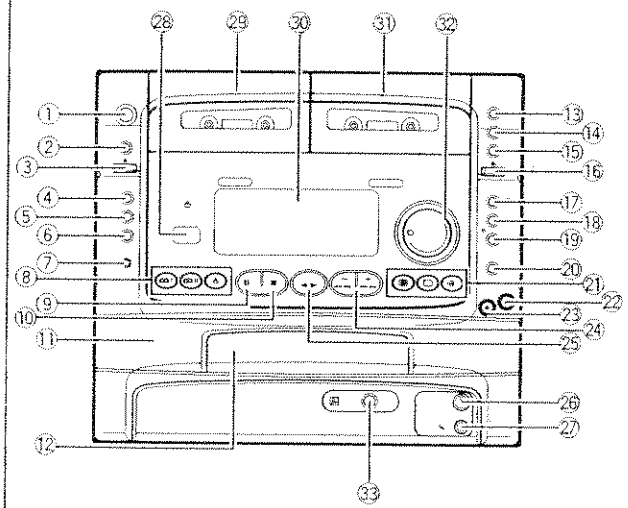
NOTE:

Do not detach the AM loop antenna when using the external AM antenna.

[CL-J75LD]



[CL-J35LD]



* For instructions regarding this section, see the auxiliary pro logic operating instruction accompanying the CL-J75LD.

FRONT PANEL FACILITIES

This unit features an "illumination guide function" which utilizes flashing indicators to indicate the operation to be performed next.

Operations on pages featuring this symbol use the illumination guide function. When several operations must be adjusted or changed in sequence, flashing indicators designate the control or buttons to be adjusted next.

① **POWER switch (STANDBY/ON)**
② **Dolby NR ON/OFF button**
③ **Tape I eject button (⏏)**
④ **SFC button**
⑤ **P.BASS button**

Each time this button is pressed, the function changes alternately as shown below:

OFF → P.BASS 1 → P.BASS 2 → (OFF)

Select P.BASS 1 when you want enhanced bass sound, and P.BASS 2 for even greater bass resonance.

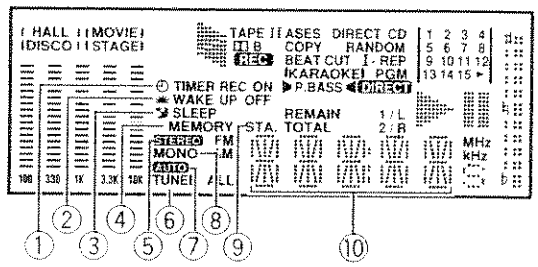
- If you notice the sound being distorted when the P.BASS function is turned ON, reduce the sound volume to a lower level.

⑥ **SOURCE DIRECT button**

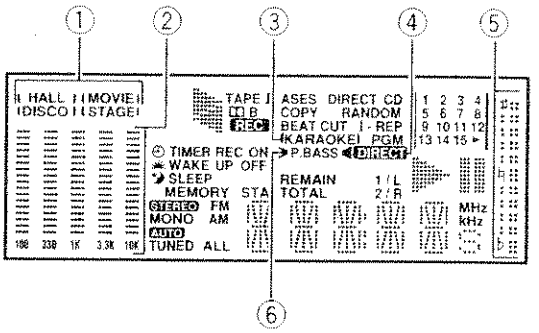
When this button is pressed to on, the indicator lights and the unit produces pure sound unmodified by the sound field control. Use this function when you wish to record sounds without modification, in their original condition.

⑦ **Headphone jack (PHONES)**
⑧ **Input selector buttons**
⑨ **Pause button (II)**
⑩ **Stop button (■)**
⑪ **LD disc tray**
⑫ **CD disc tray**
⑬ **Record/Stop button (●/■)**
⑭ **ASES button**
⑮ **COPY I ▸ II button**
⑯ **Tape II eject button (⏏)**
⑰ **TIMER ON/OFF button**
⑱ **TIMER MODE button**
⑲ **CLOCK/ADJUST button (◴/ADJUST)**
⑳ **STATION MEMORY button**
㉑ **Input selector buttons**
㉒ **LD open/close button (⏏)**
㉓ **CD open/close button (⏏)**
㉔ **Fast forward/rewind button (◄◄ I◄◄ (–), ►►I ►► (+))**
㉕ **Play (◄ ►)/SET button**
㉖ **MIC LEVEL 1, 2 control (one only on CL-J35LD)**
㉗ **MIC jack 1, 2 (one only on CL-J35LD)**
MC jack (CL-J75LD)
㉘ **Remote control sensor**
㉙ **Tape I cassette door**
㉚ **Display**
㉛ **Tape II cassette door**
㉜ **VOLUME control**
㉝ **One-touch KARAOKE button**
㉞ **KEY CONTROL button (CL-J75LD model only)**
㉟ **ECHO LEVEL control (CL-J75LD model only)**

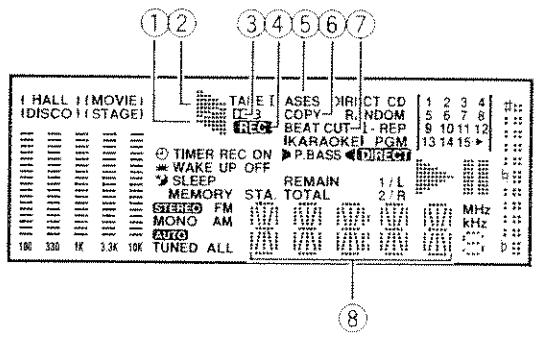
When Timer/Tuner is selected



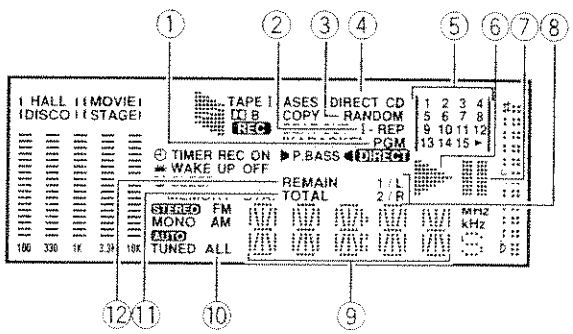
Tone/Volume controls



When cassette deck is selected



When CD/LD is selected



Display Section

When timer/tuner is selected

① Displays timer recording ON/OFF status
② Displays wakeup timer ON/OFF status
③ Displays sleep timer ON/OFF status
④ Lights when memorizing a broadcast station
⑤ Lights when a stereo broadcast is received
⑥ Lights during broadcast reception
⑦ Lights during auto tuning
⑧ Lights when MONO button is set to ON
⑨ Lights during station mode
⑩ Displays frequency and main operating statuses

Tone/Volume controls

① Selected SFC is indicated with ❙❙ mark
② Displays spectrum analyzer pattern
③ ❙❙ mark lights when one-touch karaoke button is set to ON
④ Lights when source direct button is set to ON
⑤ Displays key-control status (CL-J75LD model only)
⑥ ▸ ◂ (P.BASS 1) or ▸▸ ◂◂ (P.BASS 2) lights when P.BASS button is set to ON

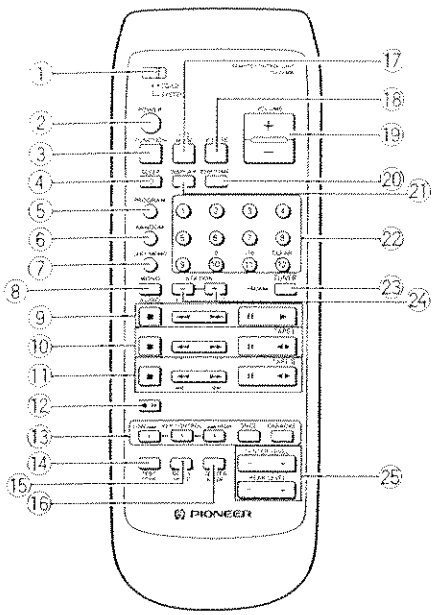
When cassette deck is selected

① TAPE II reverse direction
② TAPE II forward direction
③ DOLBY B symbol lights when Dolby NR button is set to ON
④ Lights during tape recording.
⑤ Lights during ASES operation
⑥ Lights during tape copy
⑦ Lights when Beat Cut function is ON
⑧ Tape counter :
The numbers shown in this indicator change during tape travel, thus providing an indication of the position of programs on the cassette tape.

When CD/LD is selected

① Lights during program playback
② Lights during repeat mode
③ Lights during random playback
④ Lights when a CD is loaded in the tray
⑤ Visual calendar display :
Indicates disc track numbers; when a disc with 16 or more tracks is loaded, ▶ is displayed.
During program playback, only the numbers of the programmed tracks light. In the case of discs without a TOC (table of contents), only the disc's currently playing chapter number lights. When playback of the track is completed, the track or chapter number disappears.
⑥ Lights during playback; flashes during search mode
⑦ Lights during pause mode
⑧ Indicates audio output channels
⑨ Displays the frame number or elapsed time
⑩ Total remaining time on disc (ALL)
⑪ Total playing time of current disc side (TOTAL)
⑫ Remaining playing time on the track or chapter (REMAIN)

[CL-J75LD]



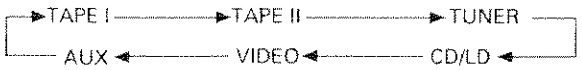
REMOTE CONTROL UNIT

[CL-J75LD]

① **CD/LD•SYSTEM selector switch**

② **POWER button**

③ **FUNCTION button (input selector button)**
The input function switches in the following order each time the button is pressed:



④ **SLEEP button**

⑤ **PROGRAM button**

⑥ **RANDOM button**

⑦ **LAST MEMORY button**

⑧ **MONO/AUDIO button (functions as AUDIO button when CD/LD•SYSTEM selector switch is set to CD/LD)**

⑨ **CD/LD operating buttons**
- ▶ : Play
- ❚❚ : Pause
- ⏮ ⏭ : Track search
- ■ : Stop

⑩ **TAPE I operation buttons**
- ◀▶ : Play
- ❚❚ : Pause
- ◀◀ ▶▶ : Fast forward/rewind button (functions as fast forward/reverse button when CD/LD•SYSTEM selector switch is set to CD/LD).
- ■ : Stop

⑪ **TAPE II operation buttons**
- ◀▶ : Play
- ❚❚ : Pause
- ◀◀ ▶▶ : Fast forward/rewind button (functions as still/frame advance button when CD/LD•SYSTEM selector switch is set to CD/LD).
- ■ : Stop

⑫ **●❚❚ Recording standby button**

⑬ **KARAOKE buttons (KEY CONTROL, ONCE, KARAOKE)**

⑭ **TEST TONE button**

⑮ **DOLBY MODE button**

⑯ **CENTER MODE button**

⑰ **SFC MODE button**

⑱ **P.BASS button**

⑲ **VOLUME control button (+/–)**

⑳ **Chapter/time button (CHP/TIME)**

㉑ **DISPLAY button**

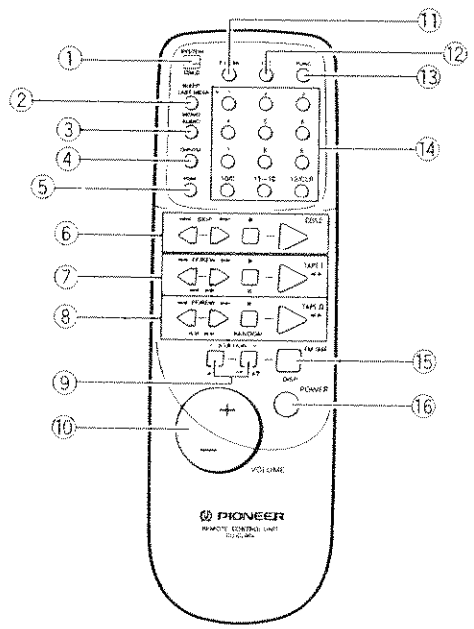
㉒ **Number buttons**

㉓ **FM/AM button**

㉔ **STATION (+, –) buttons (functions as REPEAT A-B button when CD/LD•SYSTEM selector switch is set to CD/LD).**

㉕ **Surround adjust buttons**
CENTER LEVEL (–/+)
REAR LEVEL (+/–)

[CL-J35LD]



[CL-J35LD]

① **CD/LD•SYSTEM selector switch**

② **SLEEP/LAST MEMORY button (functions as LAST MEMORY button when CD/LD•SYSTEM selector switch is set to CD/LD).**

③ **MONO/AUDIO button (functions as AUDIO button when CD/LD•SYSTEM selector switch is set to CD/LD)**

④ **Chapter/time button (CHP/TM)**

⑤ **Program button (PGM)**

⑥ **CD/LD operating buttons**

▶ :	Play
⏮ SKIP ⏭ :	Track search
■ :	Stop

⑦ **TAPE I operation buttons**

◀▶ :	Play
◀◀ FF/REW ▶▶ :	Fast forward/rewind button (functions as fast forward/reverse (◀◀ ▶▶) button when CD/LD•SYSTEM selector switch is set to CD/LD).
■ :	Stop (functions as pause (II) button when CD/LD•SYSTEM selector switch is set to CD/LD).

⑧ **TAPE II operation buttons**

◀▶ :	Play
◀◀ FF/REW ▶▶ :	Fast forward/rewind button (functions as still/frame advance (◀II II▶) button when CD/LD•SYSTEM selector switch is set to CD/LD).
■ :	Stop (functions as RANDOM button when CD/LD•SYSTEM selector switch is set to CD/LD).

⑨ **STATION (+, –) buttons (functions as REPEAT A-B button when CD/LD•SYSTEM selector switch is set to CD/LD).**

⑩ **VOLUME control button (+/–)**

⑪ **P.BASS button**

⑫ **SFC button**

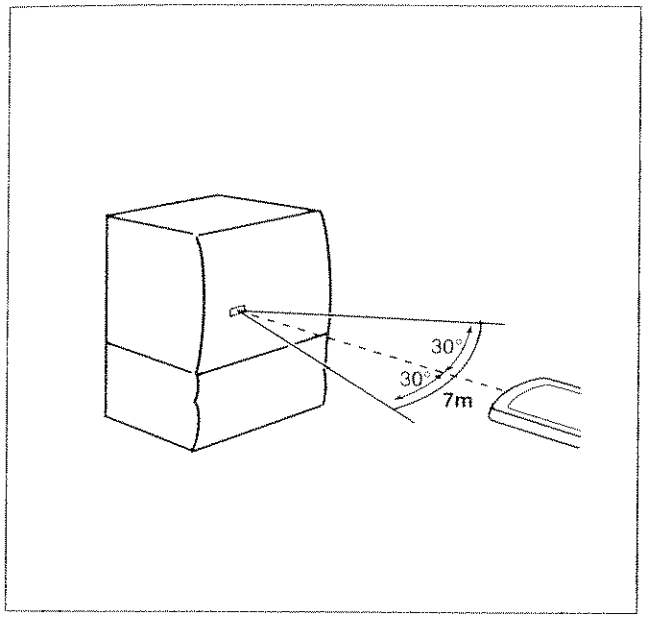
⑬ **FUNCTION button (input selector button)**

The input function switches in the following order each time the button is pressed:

⑭ **Number buttons**

⑮ **FM/AM button (functions as DISPLAY button when CD/LD•SYSTEM selector switch is set to CD/LD).**

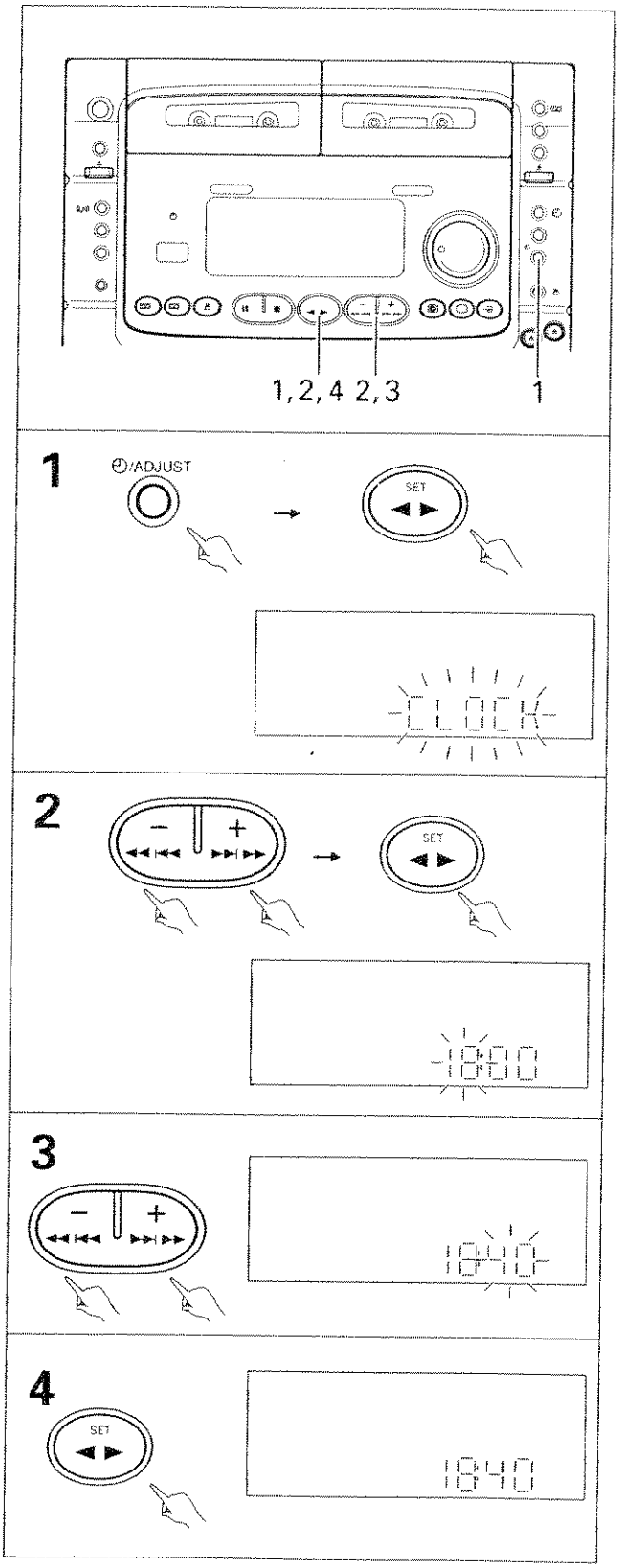
⑯ **POWER button**



- See page 7 for details regarding replacement of the remote control unit's batteries.

Remote Control Range

- The accessory remote control unit can be used to operate main component functions from a distance. Point the remote control unit's signal emitter toward the signal sensor on the main unit and press the operating buttons as desired. The operating range of the remote control unit is about 7 meters from the front of the main unit, within a range of about 30° to the right and left of the front panel.
- The remote control unit may not function properly if furniture or other obstacles are located between the remote control unit and the main unit, or if an attempt is made to operate the remote control unit from outside the ranges noted above.
- Malfunctions may occur if appliances emitting infrared rays, or remote control units for other appliances are used near the main unit. Similarly, if this remote control unit is used near another component equipped with an infrared remote control receiver, that component may malfunction.
- If you find that the operating range of the remote control unit has become extremely limited, replace the remote control unit's batteries.
- The component may fail to respond to the remote control unit properly if it the main unit is installed in a location where the sensor is exposed to direct sunlight or strong fluorescent lamps. In this case, change the installation location, remove the fluorescent lamps, or take other measures to eliminate the light source.



DIRECT POWER ON

If one of the input selector buttons is pressed when the main unit's standby indicator is lighted, the unit will automatically turn on (the standby indicator goes out), switch to the corresponding input (tuner, CD/LD, tape), and begin playback. During playback of CD/LD, if one of the other input selector buttons is pressed, the current function sill stop and switch to playback of the selected function (tuner, tape).

SETTING THE TIME

- Use this procedure to set the current clock time whenever the time is not correctly, or following a power outage.
- The time setting cannot be performed by the remote control unit.
- After the clock time has been set (no matter whether the unit's power is on or off), you can press and release the ⏲/ADJUST button to display the current time for several seconds.

Example: To set the clock to 18:40

1. **Hold the ⏲/ADJUST button depressed for about 3 seconds, then press the SET button.**
2. **Adjust the hours position, then press the SET button.**
3. **Adjust the minutes position.**
4. **Exactly at 18:40, press the SET button to complete the setting and start the clock's operation.**

NOTES:

- *If the current time is not set properly, timer playback and timer recording cannot be performed. Be sure to set the time correctly.*
- *If the power cord is disconnected or a power failure occurs, the clock will display "--:--". In this case, reset the current time using the above procedures.*

Turning on the Power

- Review the "Connections" section and confirm that the speakers and antennas are connected properly.

Set the POWER switch to ON.
(indicator lights in display section).

To turn the power off:
Press the POWER switch once again. The time display will appear and the STANDBY indicator will light.

SWITCHING BETWEEN PAL AND NTSC:

Make the following setting if you wish to use a TV compatible with the NTSC system:

1. **Set the power switch to OFF.**
2. **Hold the SFC button depressed while pressing the power switch to ON; the display will show "NTSC MODE."**

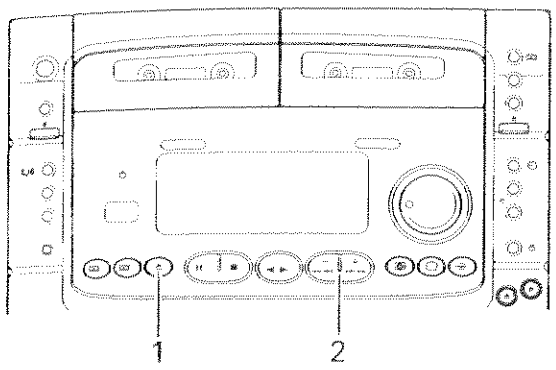
- The same procedure can be performed to switch from NTSC to PAL mode.

NOTES:

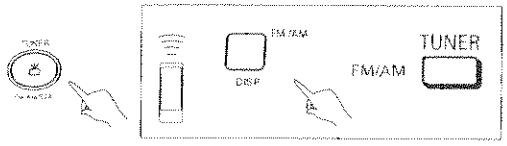
- *This unit's factory default setting is for use with the PAL system (when the POWER switch is turned on, the display will show "PAL MODE.")*
- *Once the unit is set for use with either PAL or NTSC modes, the selected setting will remain in effect unless the power is interrupted by a power failure or by disconnecting the power cord.*
- *Playing an NTSC disc in PAL mode*
  - *The colour of the background turns black.*
  - *On some TVs, the picture may shrink vertically. This is not a malfunction but caused by the NTSC → PAL conversion.*
  - *In case the picture starts rolling, adjust the V-Hold control of your TV.*
- *Set the TV to AUTO mode to view an NTSC disc on a PAL/NTSC/SECAM system TV set. Otherwise, noise appears on the screen during search.*
- *Please refer to the instruction manual supplied with your TV.*

AUTO FUNCTION

- This model is equipped with an "auto function" operation; when you press the appropriate button on the remote control unit to operate the CD or CDV LD player, cassette deck, or tuner, the function switches automatically. When using other components, use the FUNCTION buttons to select the Function manually.



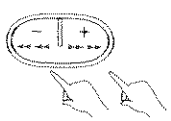
1

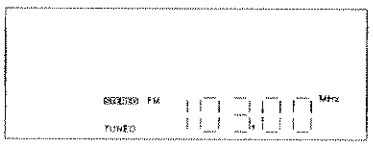


- Each time the button is pressed, the function changes as shown.

- On the remote control unit, the function changes as follows:

2





Operations denoted by the mark can be performed by the remote control unit.

LISTENING TO AM AND FM BROADCASTS

- Be sure to connect the antennas.
- Do not locate the AM antenna nearby the main unit, a computer, or television, since noise may result.
- When operating the system with the remote control unit, set the CD/LD•SYSTEM selector switch to the SYSTEM side.
- Turn off power to any connected television set while receiving AM/FM tuner broadcasts, since extraneous noise may result.

1. **Select either FM or AM band.**
2. **Adjust the tuning frequency as desired.**

[Auto tuning]
Press + or – button until the frequency starts to change, then release it.
The tuner automatically searches for a broadcasting station, and stops when one is found, and the TUNED indicator lights up. To search for another station, press again.

- To interrupt auto tuning, press + or – button again.

NOTE:
When auto tuning is in use, reception may not be possible for distant stations or when signals are weak. At these times manual tuning is recommended.

[Manual tuning]
Press + or – button and release quickly.
The tuning frequency will change by one step each time the button is pressed. Press as many times as necessary to tune in the desired station. The TUNED indicator lights up when the station is tuned in best.

- If you keep the + or – button depressed after the frequency has begun to change, the reception frequency changes continuously, and stops when the button is released.

STEREO indicator:
This indicator lights when a stereo broadcast is received.

MONO indicator:
During reception of a stereo broadcast, if you are very far from the station or the signal is otherwise weak, excessive noise may be present in the broadcast. In this case, press the remote control unit's MONO/AUDIO button so that the MONO indicator lights. The broadcast will switch to monaural sound, but the level of noise will be reduced.

MEMORIZING STATIONS

To Record Broadcast Stations in the Station Memory

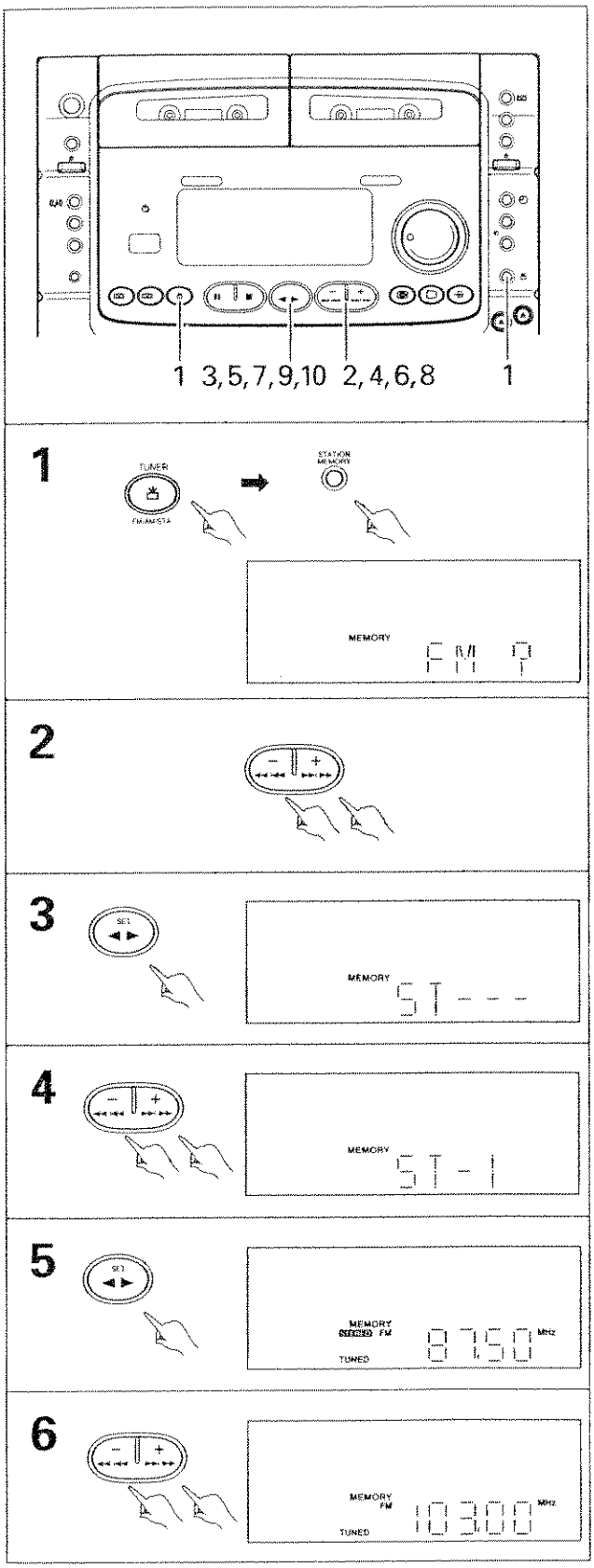
- Be sure to connect the antennas.
- By recording stations in the station memory, broadcasts can be received easily, merely by selecting the corresponding channel.
- A total of 24 AM and FM stations can be recorded in the station memory.

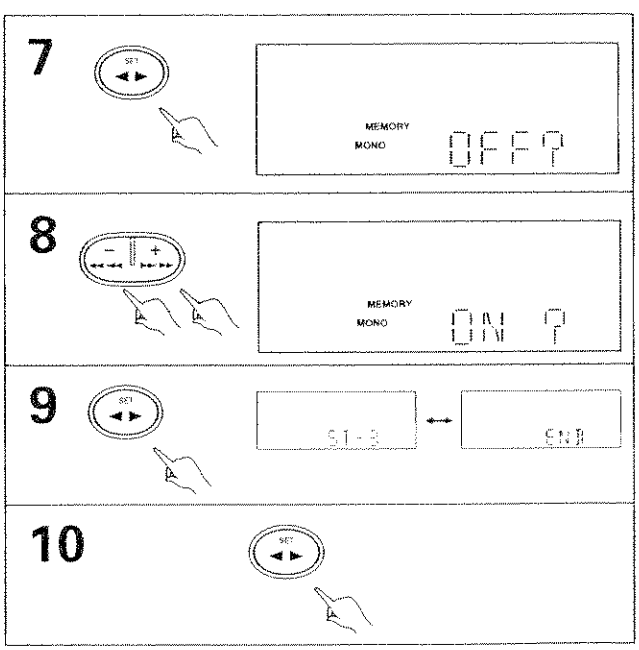
Presetting Stations in Memory

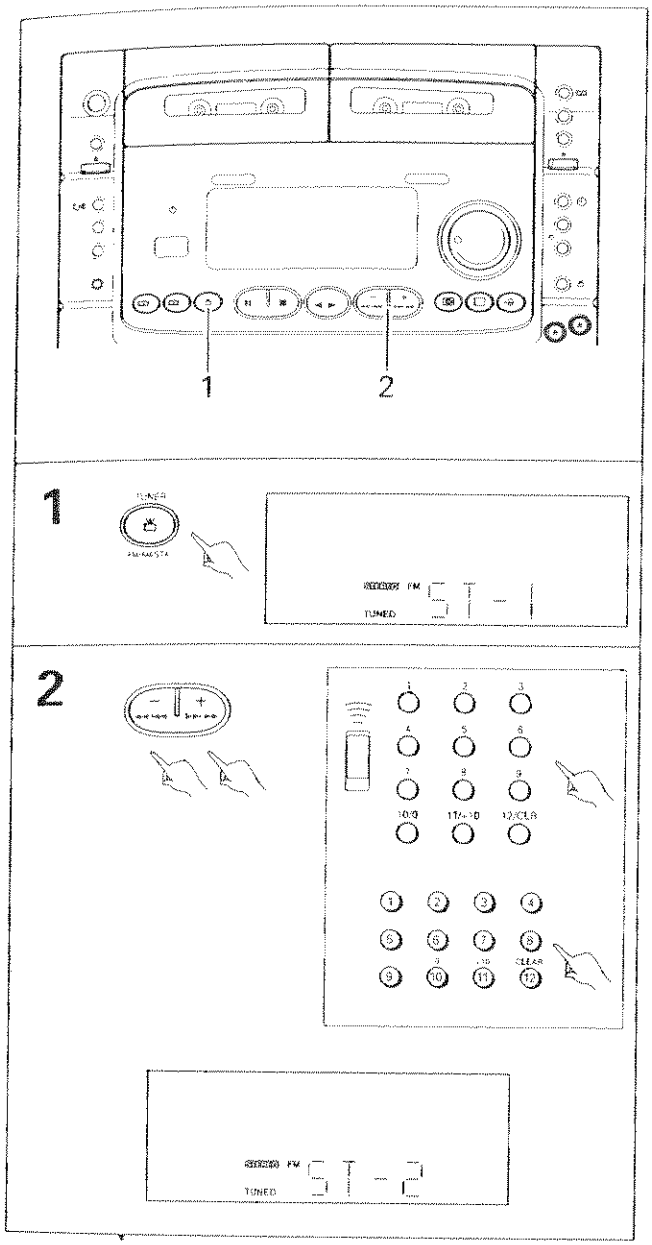
1. **Press the TUNER button to begin reception, then press the STATION MEMORY button.**
2. **Select either FM or AM.**
3. **Press the SET button.**
4. **Use fast forward/rewind buttons (–, +) to select the channel (station call no.) you want to memorize.**
5. **Press the SET button.**
6. **Tune in a broadcast frequency you wish to record in the station memory.**
7. **Press the SET button.**
8. **Set the MONO function to either ON or OFF.**
   - If excessive levels of noise are heard during stereo broadcasts, set this function to ON to reduce the level of noise.
9. **Press the SET button.**
10. **Press the fast forward/rewind button (–, +), and return to step to record new broadcast frequencies in the memory. Press the SET button to complete the memory process.**

- If you wish to change between AM and FM bands, press the SET button to end the memory procedure, switch to the alternate band, then begin again from step 1.

- If you input a new station frequency to a channel which already contains a previously input station frequency, the previous station frequency will be erased and replaced by the new station.
- Here, a "station" refers to a broadcast station preset in the station memory.



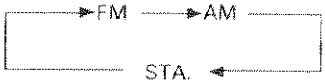




RECEPTION USING PRESET TUNING

- Using this function allows you to skip over broadcast stations not recorded in the station memory.
- When performing this operation with the remote control unit, set the CD/LD•SYSTEM selector switch to the SYSTEM side.

1. **Set to station mode (STA.).**
   Each time the button is pressed, the function changes as follows:



2. **Select the desired station.**
   After 1-2 seconds, the indicator will return to the frequency display.

Using the remote control unit to perform station call:
Select the desired station by pressing the STATION (+, –) buttons.

To use the remote control unit's number buttons to select a station:

Times pressed \ Number buttons	1	2	3	4	5	6	7	8	9	10/0	+10	CLEAR
One time	1	2	3	4	5	6	7	8	9	10	11	12
Two times	13	14	15	16	17	18	19	20	21	22	23	24

Last One Memory:

When the power is turned on, and the input selector button is pressed to select the tuner function, the last station previously selected will be tuned in automatically. Also, if the band (FM/AM) is then changed, the last station previously tuned on that band will be likewise received. The "last one memory" function will not operate, however, if the power cord is disconnected, or a power failure has occurred.

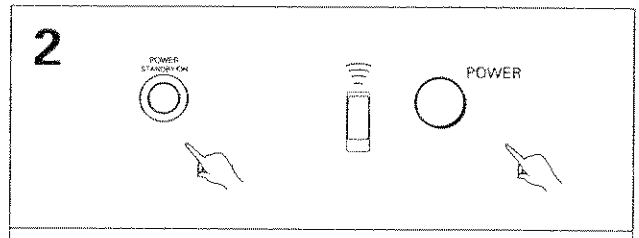
- "Station call" means to call one of the broadcast frequencies (stations) from the station memory.

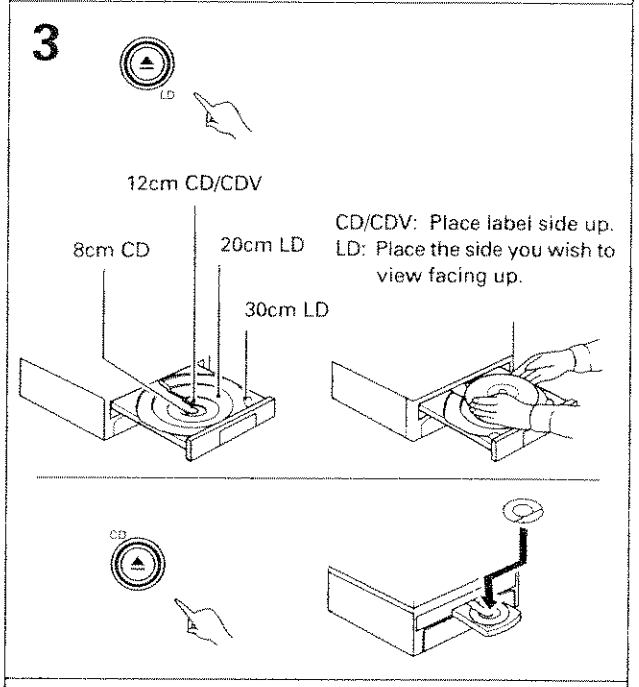
Channel Memory:

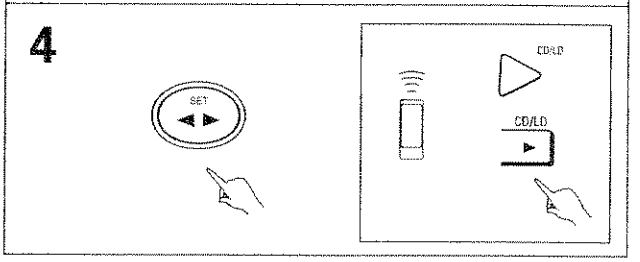
The station frequencies recorded in the station memory will be retained even when the unit's power is turned off, so long as the power cord is not disconnected. Even when the power cord is disconnected, the memorized stations will be preserved for several days by a backup function. If the memorized stations become erased, see page 18 for details on how to record the stations in the memory once again.

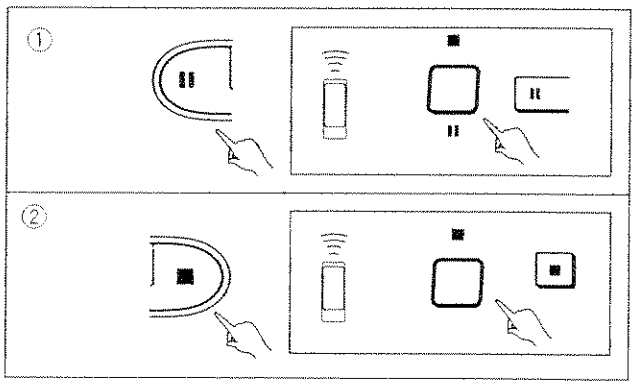
Stereo Broadcasts:

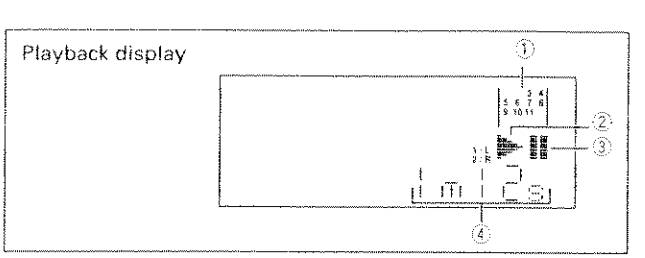
When a stereo broadcast begins, the STEREO indicator will automatically light to indicate reception of a stereo broadcast. However, broadcasts will be reproduced in monaural if the MONO indicator is lighted (press the remote control unit's MONO/AUDIO button to release the MONO function if desired).











ENJOYING LD/CDV/CD

To Listen or View the Disc from the First Track

- When using the remote control unit to operate, set the CD/LD• SYSTEM button to the CD/LD side.

1. **Turn on the power to your connected TV set.**
   Set the function (input) selector to correspond to the connected television.
2. **Turn on the power to this unit.**
3. **Open the disc tray and load a disc.**
   To listen to a CD, press the CD ≜ button.
   To watch a LD, press the LD ≜ button.
   As shown in the illustration, set the disc in the grooves of the tray corresponding to its proper size.
   - If the disc is not set accurately in the properly sized circle, it may lie outside the proper range, resulting not only in failure to play, but damage to the disc.
   - When a LaserDisc is in the disc tray, the tray can be opened also by pressing the CD ≜ button.
   - When a CD is loaded in the tray, the CD DIRECT indicator will light.
4. **Press the play (◄ ►) button.**
   The disc tray will close and playback will begin.
   - In the case of a CDV, playback will begin from the video portion.
   - If the play (◄ ►) button is pressed with the tray is open, the tray will automatically close and playback will begin.

Safety First!
Take care not to pinch your finger when the disc tray is closing. Also, never permit small children to place their hands inside the disc tray, since personal injuries may result.

To avoid damage and other accidents, take particular note of the following precautions:
- *Never set any object other than a disc in the disc tray.*
- *Never attempt to move the unit during playback, since damage to the disc may result.*

Regarding loading of discs:
- *Never load more than one disc at a time. Loading two discs simultaneously may result in damage and malfunctions.*
- *With this unit, playback of all types of discs is carried out without the use of adaptors. Therefore, do not use any type of adaptor with this unit.*
- *With CDs, CDV discs, and single-sided LDs, always be sure to load discs with the label side facing upward.*

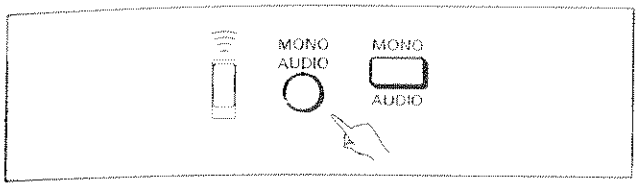
① To briefly interrupt playback press the II button.
Press once again to resume playback.
② Press to stop playback.

Playback Display

① The currently playing chapter number or track number flashes.
② Lights during playback.
③ Lights during pause.
④ LD: Displays the playback time numbers (minutes/seconds or minutes only), or frame numbers.
CD/CDV: Displays the elapsed time (minutes/seconds) of the currently playing track.

NOTE:
The disc rotation motor continues operating, even when the disc is set to the pause mode. To preserve the condition of the motor, do not leave the unit in the pause mode for lengthy periods of time.

Switching the Sound Mode



- Perform this operation with the remote control unit. Set the CD/LD·SYSTEM selector switch to the CD/LD side.

<For NTSC disc>

During playback, pressing the MONO/AUDIO button switches the sound mode as noted below; for example:

- To listen to the analog sound from a disc with digital sound.
- To listen to one channel only of a stereo disc.
- To select one channel of a multiplex disc.

LDs with digital sound:

Switching can be performed between digital sound and analog sound, or between the left and right channels of a stereo disc.

Digital sound (stereo) → Analog sound (stereo) → Analog sound left channel → Digital sound right channel → Digital sound left channel → Analog sound right channel → Digital sound (stereo)

LDs with analog sound:

- Discs with CX automated on/off codes

Stereo sound → Right channel → Left channel → Stereo sound

- Discs without CX automated on/off codes

CX off (stereo) → CX on (stereo) → CX on left channel → CX off right channel → CX off left channel → CX on right channel → CX off (stereo)

For CDs or CDVs:

Stereo sound → Right channel → Left channel → Stereo sound

<For PAL disc>

Stereo sound → Right channel → Left channel → Stereo sound

Multi-audio discs (discs with the DIGITAL AUDIO mark and the MULTI AUDIO marking, or LDs with the DIGITAL SOUND MULTI AUDIO mark) can be played back in various combinations of 1/L channel, 2/R channel, digital sound, and analog sound selected with the MONO/AUDIO button.

Discs marked with the CX mark

Discs marked CX are recorded with the CX noise reduction system for powerful audio reproduction with little noise. (Analog audio only)

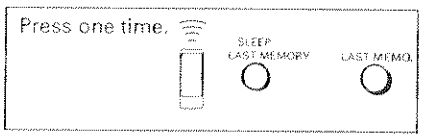
However, some discs marked CX are not encoded with the signals necessary to instruct the unit to automatically switch on the CX system. If sound is noisy or undulates when a disc with a CX mark is played, press MONO/AUDIO button on the remote control unit.

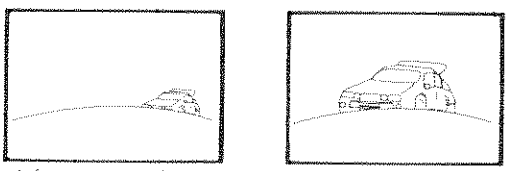
- CX is a trademark of CBS Inc. This player meets the CX EXPANDING SPECIFICATION.

Resume LD Playback

- Perform this operation with the remote control unit. Set the CD/LD·SYSTEM selector switch to the CD/LD side.
- This function allows you to play an LD to a certain point, stop it, and then resume playback later from the same point. Use the stop button to interrupt playback, the leave the disc in the disc tray until you wish to view it again.

To Begin Resume Playback Immediately:

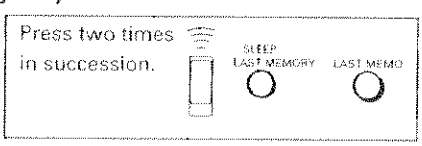


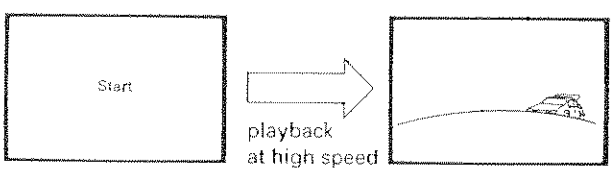


A few seconds before — Stop frame

- The screen display will show LAST MEMORY MODE 1.
- Playback will begin from a point a few seconds before the point at which it was previously stopped.

To View a Synopsis of the Previous Disc Contents Before Resuming Playback:





A few seconds before

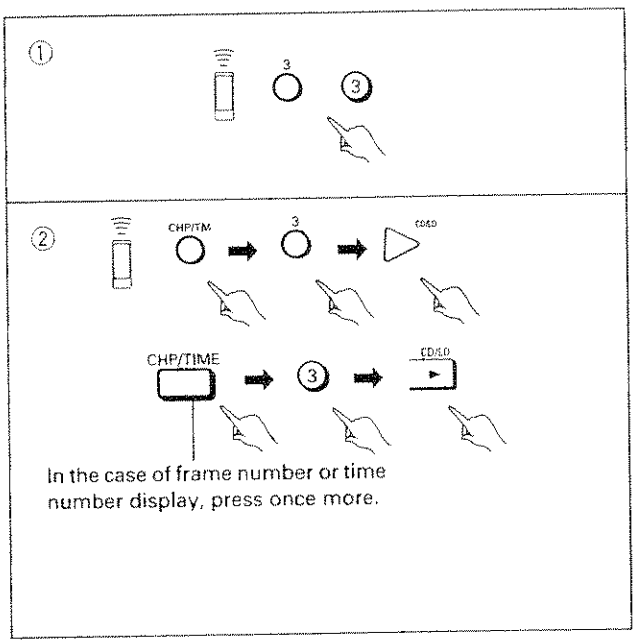
- The screen display will show LAST MEMORY MODE 2.
- The disc will be played back from the beginning at high speed until it reaches a point a few seconds before the point where it was last stopped. At that point it will resume playback at normal speed.
  During the high-speed playback, pressing the LAST MEMORY button will cause the playback to immediately resume at a point a few seconds before the point at which it was previously stopped.

NOTES:

- *This function is for LD playback only. The resume playback (last memory) function does not operate with CDs or CDVs.*
- *After the ■ button is used to stop playback, if playback is resumed by pressing ► button, the playback will resume from the beginning of the disc.*
- *Leave the disc in the disc tray until you wish to resume playback; the last memory function will not operate if the disc is removed from the tray.*
- *Be sure the unit's power cord is connected to an outlet supplied continuously with electricity.*

TO SEARCH FOR A PARTICULAR CHAPTER/TRACK

- The word "chapter" refers to the divisions recorded on a LaserDisc, similar to the chapters of a book. "Track" refers to the program numbers of a CD or CDV. Discs recorded with chapter numbers or track numbers have an indication to that effect on their jackets. Some discs are not recorded with chapter numbers.
- When using the remote control unit, set the CD/LD•SYSTEM selector switch to the CD/LD side.



To Designate Chapter Number or Track Number

Example: To begin playback from chapter 3 of a LaserDisc.
① Direct search
② Normal search

When more than ten chapter numbers are recorded on a disc:
<Direct search>
Example: Chapter 17: +10, 7
Chapter 30: +10, +10, +10, 0
Direct search for chapters 11 or 12 cannot be performed by pressing 11, 12.
<Normal search (LD only)>
Example: Chapter 17: CHP/TM (CHP/TIME), 1, 7, ▶
Chapter 30: CHP/TM (CHP/TIME), 3, 0, ▶

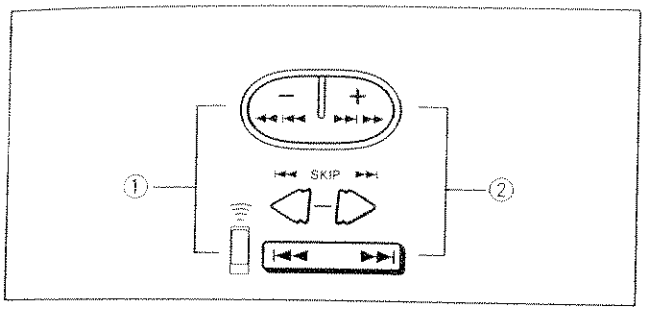
If you press the wrong number button:
Press the CLEAR button then press the correct number button.

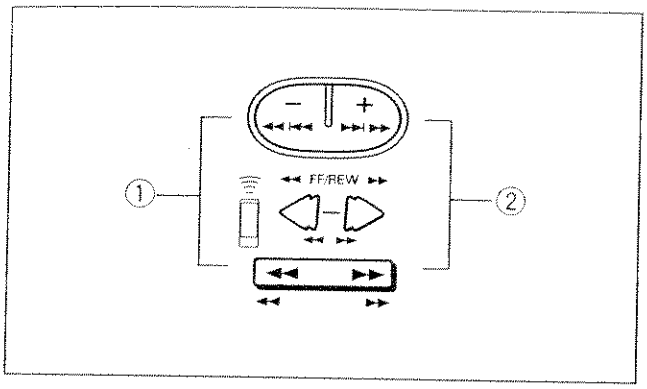
To stop a search midway through:
Press the CLEAR button during the search.

When the remote control unit's CD/LD button is pressed:
Regardless of the status prior to the search, on a CAV disc, a still picture will be shown, and on a CLV disc, normal playback will commence.

To display the current chapter, frame, or time number:
Press the remote control unit's DISPLAY button to display the information onscreen.

NOTES:
- *When a LaserDisc is provided with a Table of Contents (TOC), no number can be designated higher than that actually recorded on the disc.*
- *When a LaserDisc is not provided with a Table of Contents (TOC), if a chapter number is designated higher than that actually recorded on the dick, the unit will playback normally, then enter the pause or still picture mode. (If "0" is designated, playback will commence from the beginning of the disc.)*
- *Chapter search cannot be performed on discs not recorded with chapter numbers. During playback, only frame or time numbers can be shown onscreen.*





To Return to the Beginning of a Chapter/Track, or Advance to the Beginning of the Next Chapter/Track

① Press and release this button quickly to return to the beginning of the current chapter or track (playback resumes automatically). If the button is pressed multiple times before the screen appears, playback can be returned to even earlier chapters or tracks (corresponding to the number of times the button is pressed).

② Press and release this button quickly to advance to the beginning of the next chapter or track (playback resumes automatically).

Manual Search—Search Using Fast Forward or Fast Reverse

① Press for fast-reverse operation.
② Press for fast-forward operation.

This operation can be performed during playback, or from the pause mode.
To view a clear scan picture , press the Fast Forward/Rewind button without holding down the DISPLAY button on the remote control unit. The clear scan function operates while the button is pressed. When the DISPLAY button is pressed on the remote control unit during screen display, the scan will begin at low speed and gradually increase speed as the button is held depressed. However, the video sections of a CDV disc cannot be scanned.

About Clear Scan:
Fast forwarding without image distortion can be performed on CLV discs as well. The image will be interrupted for an instant, but this is not a malfunction.

If the disc is reversed rapidly to its beginning:
Normal playback will begin.

If the disc is fast forwarded to the end of the disc:
With LaserDiscs, the unit will enter the pause mode.
With CDV discs, if the disc is forwarded to the end of the video portion, the search will begin in the audio portion.

Sound during fast forward and fast reverse:
During use of the fast forward and fast reverse functions, sound cannot be heard. However when playing back the digital sound tracks of discs recorded with digital sound, the audio portion can be heard at a reduced level during clear scan as well.

Note on CAV:
While scanning, noise may occur on the screen. This is not a malfunction.

Note on CLV:
The scan speed is different between inner tracks and outer tracks.

TO SEARCH FOR A PARTICULAR TIME/FRAME

- Perform this operation with the remote control unit. Set the CD/LD•SYSTEM selector switch to the CD/LD side.

Time Number Search—LD (CLV disc only)

Example: To search for the image at the time number 12:34

1. **During playback, press the CHP/TIME button to display the time.**
2. **Press the number buttons** 1, 2, 3, 4.
   If you press the wrong button, press the CLEAR button, and after confirming that the display shows "0:00" press the correct buttons.
3. **Press the ► button.**

NOTE:
On discs not provided with second numbers, designate the image by the minute number (two digits) only.

For Frame Number Search: Searching for Specific Scenes — LD (CAV disc only)

1. **During playback, press the CHP/TIME button; "FRAME 0" will be displayed.**
2. **Press the number buttons** 1, 2, 3, 4, 0.
3. **Press the ► button.**
   Frame search will be performed, and the display will show a still picture. Press the ► button again to resume ordinary playback.

NOTES:

- *The* +10 *button does not function.*

  0 - 9 *can be used.*
- *If you make a mistake during entry, press the CLEAR button and press the correct number buttons.*
- *If time/frame number beyond the last time/frame number on the disc is specified, the still image appears on the screen at the end of the disc.*

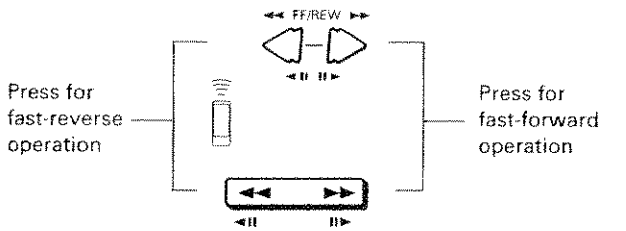
To exit search mode:
Press the CLEAR button.

NOTE:
If you attempt to search for a frame number higher than those actually existing on the disc, the disc will enter the still-picture mode at the end of its search. On the other hand, if "0" is designated as the search frame, the disc will begin playback from the beginning.

EXTRA PLAYBACK (CAV disc only)

- Perform this operation with the remote control unit. Set the CD/LD•SYSTEM selector switch to the CD/LD side.

Still-Frame and Frame-by-Frame Advance Function



To view a still image, press the still/frame advance (◄II , IIP) button. To resume ordinary playback, press the ► button.
To advance the still image in units of individual frames, press the still/frame advance (◄II , IIP) button to set to still image, then continue pressing the button to advance by individual frames. To resume normal playback, press the ► button.

NOTE:
No sound is heard during still image and frame-by-frame playback.

TO REPEATEDLY PLAY A DESIRED PASSAGE (Repeat playback)

- Perform this function with the remote control unit. Set the CD/LD•SYSTEM selector switch to the CD/LD side.

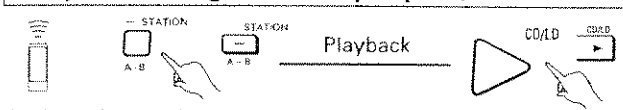
To Perform Repeat Playback of the Currently Playing Chapter or Track (Chapter/Track Repeat)

Press this button during playback of the desired chapter or track.

The I-REP indicator will light on the display.

- Repeatedly plays the currently playing chapter or track.
- With LaserDiscs which do not include chapter numbers, the entire side of the disc will be repeated.

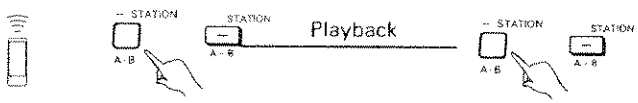
To Later Return to a Point from which you Wish Playback to Begin (Memory Repeat)



At the point you later wish to begin playback, press the A-B button. The REP indicator will flash in the display.

When you wish to begin playback from the selected point, press the play button.

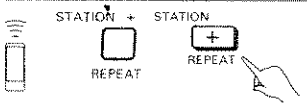
To Playback a Designated Section (A-B Repeat)



At the beginning point of the section you wish to playback, press the A-B button. The REP indicator will flash in the display.

At the ending point of the section you wish to playback, press the A-B button again. The REP indicator will light steadily in the display.

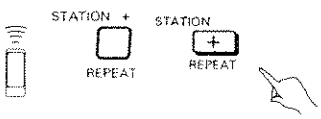
Repeat Playback of the Entire Contents of a Disc Side (Side Repeat)



Press the REPEAT button two times.

The REP indicator will light in the display.

Repeat Playback of a Memorized Program (Program Repeat)

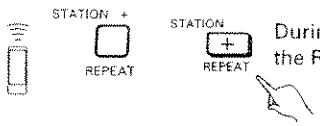


Press the REPEAT button during playback of a memorized program.

The REP indicator will light in the display.
The disc contents will be played back in the order of the memorized program.

- See page 26 for details regarding program playback.

Repeat Random Playback (Random Repeat; for LDs, CDs, CDVs Recorded with Table of Contents)



During random playback, press the REPEAT button.

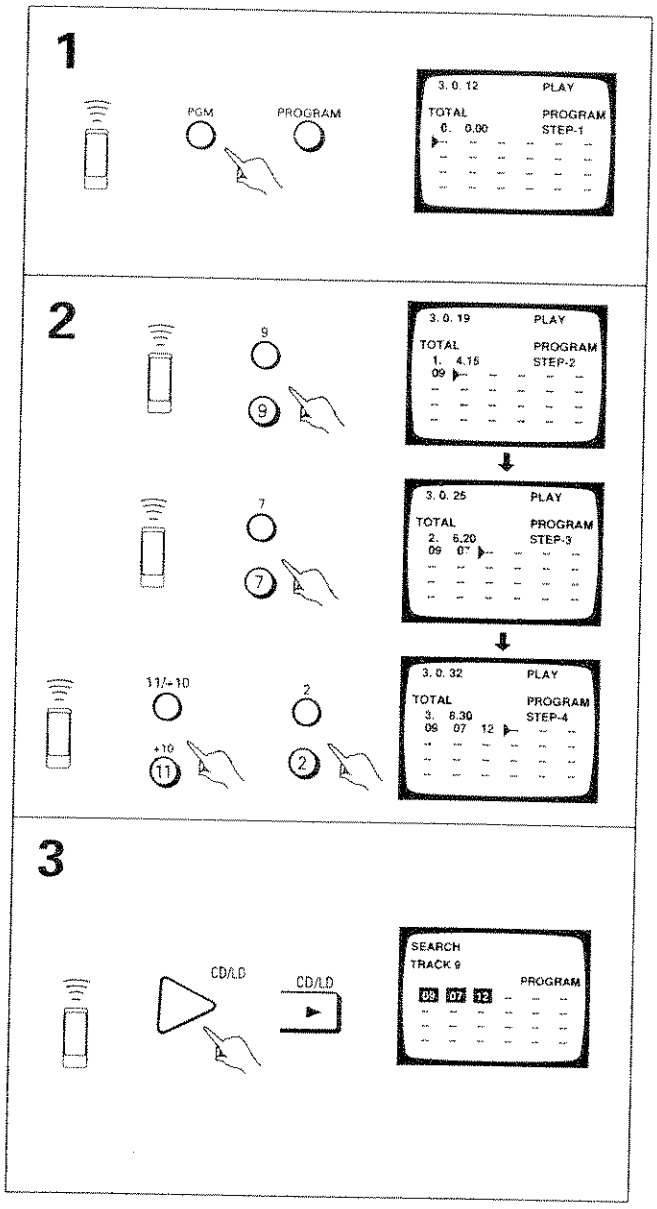
The RANDOM REP indicator will light in the display, and random playback will be repeated.

- See page 27 for details regarding random playback.

To cancel repeat playback:
Press the CLEAR button, or press the REPEAT button so that the REP indicator goes out in the display. In the latter case, the repeat mode will be canceled, but current playback will continue.

Memory repeat and A-B repeat with CDV discs:
When a designated section overlaps the video and audio portions of the disc, the subsequent repeat playback cannot be performed.

To confirm the current playback mode:
Look at the display. Press the remote control unit's DISPLAY button, and the playback mode will be shown on the display.



PROGRAMMED PLAYBACK OF CHAPTERS AND TRACKS

- This function allows you to playback desired chapters (LD) or tracks (CDV/CD) in any order you wish.
- Up to 24 steps can be programmed on discs containing up to 99 chapters/tracks.
- Perform this function with the remote control unit. Set the CD/LD·SYSTEM selector switch to the CD/LD side.

Example: To program tracks 9, 7, and 12 of a CD.

1. **Press the PGM button.**
2. **Press the number buttons in the order** 9, 7, +10, 2.
   If you press a wrong number button, press the CLEAR button, then input the correct button.
3. **Press the ► button.**
   Programmed playback begins.

To Confirm the Contents of a Program

During program playback or after completion of a program playback, press the PGM button and the program contents will be displayed onscreen. Press the PGM button once again to turn off the display of the program contents.

To Change the Contents of a Program

1. **Press the PGM button.**
2. **Press the ⏮ and ⏭ buttons to move the ► cursor to left of the item you wish to change.**
3. **Using the number buttons, input the new track number you wish to program. To insert a pause as one step of the program, press the ⏸ button. To cancel the modification, press the CLEAR button.**
4. **Press the PGM button to complete the modification. If the ► button is pressed instead of the PGM button, playback will begin from the first programmed track.**
   - Erasure or modification of the currently playing programmed track cannot be performed.

To cancel program playback midway through:
Press the main unit's ■ button, or the remote control unit's ■ button.
Or, press the remote control unit's CLEAR button. In this case, the program will be canceled, but playback will continue.

To cancel the program contents:
Open the disc tray, or press the CLEAR button when the unit is stopped.

When programmed a pause:
Programming a "pause" can be very convenient when performing recording.

To program a pause as one step of a program:
After going to step 2, press the ⏸ button at the point you wish to insert the pause.

NOTES:

- *A pause is counted as one of the 24 possible steps in a program; this means that the number of tracks which can be programmed will be reduced by the corresponding number of pauses input.*
- *A pause cannot be input as the first step of a program; also, two pauses cannot be input consecutively.*
- *Even if a pause is programmed as the last step of a program, the unit will not enter the pause mode at the conclusion of program playback.*

About the Total Program Time Display
When performing program playback of a CD or CDV, the total time of the program is displayed. If the total time of the program exceeds 100 minutes 00 seconds, the unit's display will not show the hundred's digit, but it will be displayed on the television screen. Also, if tracks numbered higher than 33 are programmed, the total program time will not be displayed.

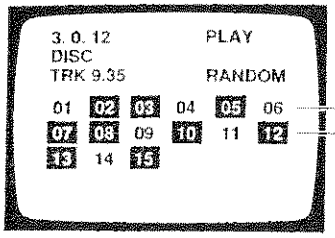
RANDOM PLAYBACK

- Perform this function with the remote control unit. Set the CD/LD•SYSTEM selector switch to the CD/LD side.
- Random playback can be performed on tracks numbered 1-99.
- Random playback cannot be performed on LaserDiscs without a recorded Table of Contents (TOC).

Press the RANDOM button.
Random playback will begin, and all tracks on the disc will be played back in computer-selected random order. When all disc tracks have been played back, playback will stop.

- When performing random playback of a LaserDisc, press the RANDOM button only after beginning playback.
- If the RANDOM button is pressed during random playback, the current playing order will be canceled, and random playback will begin again in a different playback order.

Random Playback Display:
Press the remote control unit's DISPLAY button to display the random playing order.


3. 0. 12
PLAY
DISC
TRK 9.35
RANDOM
01 02 03 04 05 06
07 08 09 10 11 12
13 14 15
Tracks which have already been played back.
Currently playing track, and tracks yet to be played back

To move to the next playback track:
Press the track search button (▶▶|). Each time the button is pressed, playback will advance to another track.
However, playback cannot be returned to previously played tracks by pressing the |◀◀ button.

To cancel random playback:
Press the CLEAR button. Beginning with the next track, playback will continue in the order the tracks are recorded on the disc.

To stop random playback:
Press the ■ button.

LaserDiscs with TOC:
Chapter number zero (0) is not included in random playback.

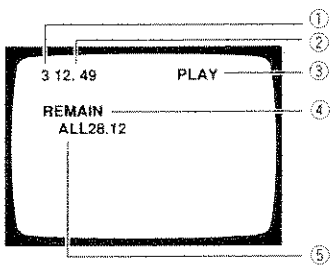
CDVs:
Video portions and audio portions will be played back in random order.

To repeat random playback:
During random playback, press the REPEAT button. The currently playing random order will be repeated.
To cancel repeat playback, press the CLEAR or REPEAT button.

SCREEN DISPLAY

- Set the remote control unit's CD/LD•SYSTEM selector switch to the CD/LD side.
- The remote control unit's DISPLAY button can be pressed to display the current playing mode, track/chapter numbers, and playback time.

The Screen Display is as Follows:



① Chapter or track number
② Elapsed time or frame number
③ Disc is currently playing
④ TOTAL: total time on disc
REMAIN: Remaining playing time
DISC: Elapsed playback time since beginning of disc.
⑤ ALL: Total (remaining time)
TRK: Track

If the information screen is left on the screen for an extended period of time (more than about 80 minutes), the display will disappear automatically. The information screen can be redisplayed by pressing any button on the remote control unit.

Regarding the Time Displays:

The time displays change in the following order each time the DISPLAY button is pressed:

[CDV or CD]

① Elapsed time from beginning of currently playing track to current position.
↓
② REMAIN TRK: Remaining time of currently playing track.
↓
③ REMAIN ALL: Remaining time from current position on disc to end of disc.
↓
④ TOTAL: Total playing time on disc (from beginning to end).
↓
Screen display disappears.

[LD with TOC (CAV: ACTIVE PLAY DISC)]

① Frame number currently playing.
↓
② DISC: Elapsed time from beginning of disc.
↓
③ REMAIN ALL: Remaining time all.
↓
④ TOTAL: Total playing time on disc (from beginning to end).
↓
Screen display disappears.

[LD with TOC (CLV: LONG PLAY DISC)]

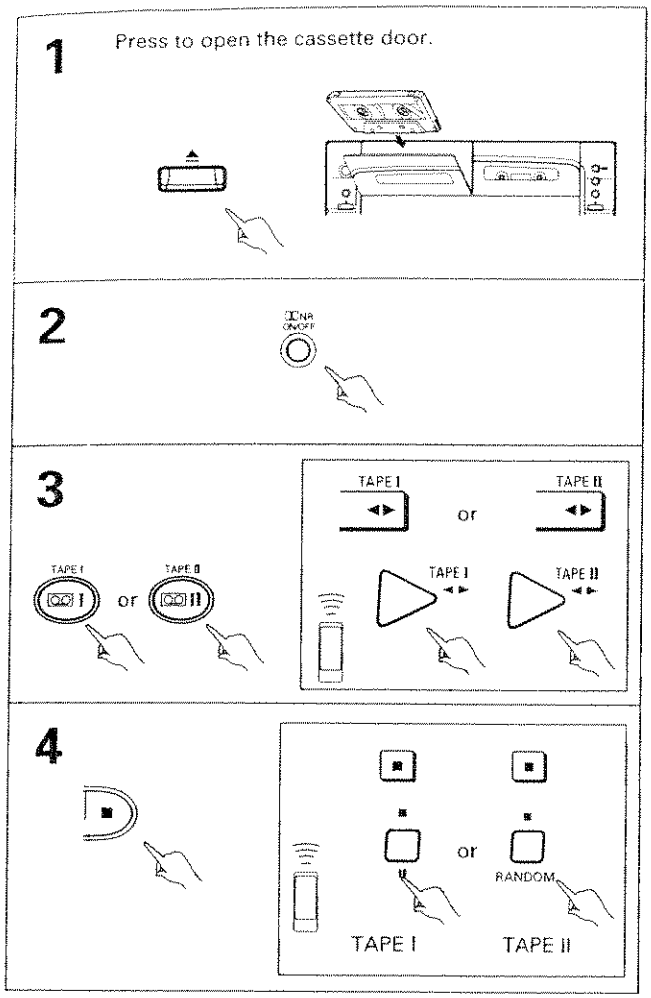
① Elapsed time from beginning of disc.
↓
② REMAIN ALL: Time from current position to end of disc.
↓
③ TOTAL: Total playing time on disc (from beginning to end).
↓
Screen display disappears.

[LDs without TOC]

Time/frame number (elapsed time/frame number from beginning of disc) → Information screen disappears.

CAUTION:

If analog audio disc with PAL system is played, no sound comes out. At this time, "ANALOGUE DISC NO SOUND" appears on the screen.



CASSETTE DECK OPERATIONS

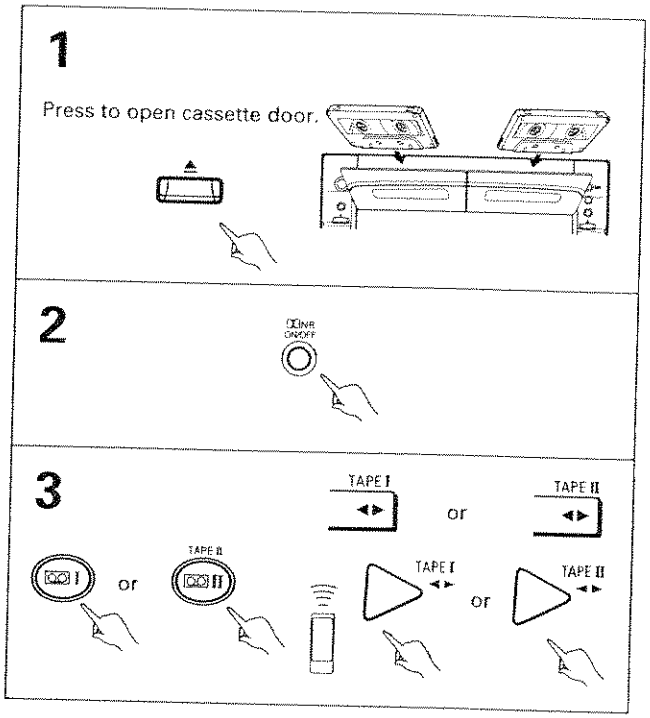
- If a television is turned on too near the unit during tape playback, interference noise may be heard. In this case, turn off the television's power.
- When operating the cassette deck with the remote control unit, set the CD/LD•SYSTEM selector switch to the SYSTEM side.
- Tapes usable for playback on this unit include Type I (normal), Type II (high-position/CrO_2), and Type IV (metal).

1. **Load a prerecorded tape cassette into TAPE I or TAPE II, and close the cassette door.**
2. **Set the Dolby NR* selector button to ON or OFF (See page 32.)**
   During playback, set the Dolby NR selector button to the position corresponding to the same condition in which the tape was recorded.
3. **Press the input selector button for the deck side you wish to play back. The function will switch and playback will begin automatically.**
4. **Press the ■ button to end playback.**

- If the function is already set to the deck side (TAPE I or TAPE II) you wish to play, press the play(◄►) button to begin playback.
- Each time the play (◄►) button or the remote control unit's ► button is pressed, the direction of playback alternates between forward and reverse.
- Tape counter automatic reset:
  The tape counter is automatically reset to "0000" each time a tape cassette is removed from the deck.

*

- *Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.*
- *"DOLBY" and the double-D symbol are trademarks of Dolby Laboratories Licensing Corporation.*



CASSETTE TAPE RELAY PLAYBACK

To Listen to Two Cassette Tapes Consecutively (Relay Play)

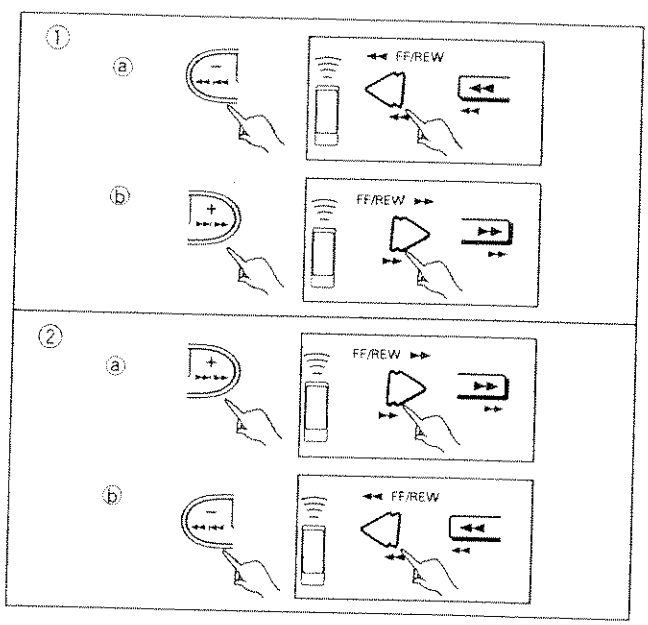
- Using this function, when one cassette tape comes to the end of its playback, the other tape automatically begins playback.
- When using the remote control unit to operate this function, set the CD/LD•SYSTEM selector switch to the SYSTEM side.

1. **Load a pre-recorded cassette tape into both decks TAPE I and TAPE II, and close the cassette doors.**
2. **Set the Dolby NR selector button as desired.**
   During playback, set the Dolby NR selector button to the position corresponding to the same condition in which the tape was recorded.
3. **Press the input selector button corresponding to the side from which you wish to begin playback. The function will change and playback will begin automatically.**

- When cassette tapes are inserted in both decks TAPE I and TAPE II, replay play will be performed as follows (up to a maximum 32 sides):

TAPE I forward (►) → TAPE I reverse (◄) → TAPE II reverse (◄) ← TAPE II forward (►) ←

- To cancel relay playback, press the ■ button.
- If a cassette tape is inserted only in one deck, a maximum of 16 sides will be played.



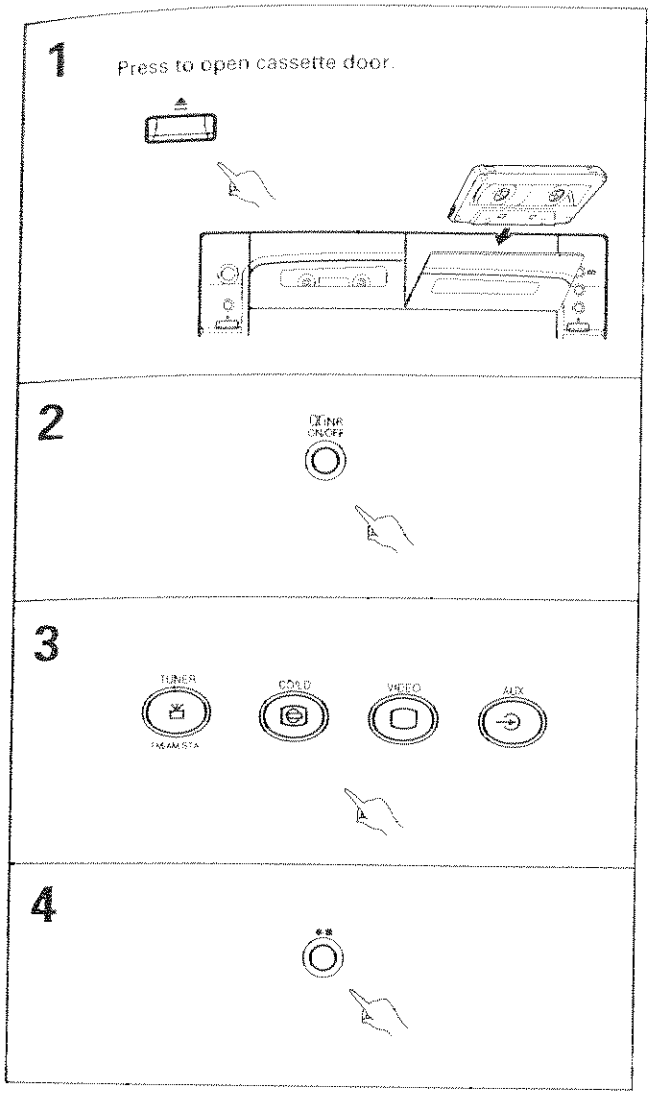
To Search for a Specific Tape Track (Music Search)

- During playback, press the Fast Forward or Reverse button.
- When using the remote control unit to perform this operation, set the CD/LD•SYSTEM selector switch to the SYSTEM side.

① **During forward playback (►):**
   ⓐ To return to the beginning of the currently playing track:
   ⓑ To advance to the beginning of the next track:
② **During reverse playback (◄):**
   ⓐ To return to the beginning of the currently playing track:
   ⓑ To advance to the beginning of the next track:

NOTES:

- *While the music search function is operating, do not attempt to change the direction of tape travel, since the deck mechanism may be damaged, or the cassette tape may be stretched.*
- *The music search function may not operate, or operate improperly, with the following kinds of tape (this is not a malfunction):*
  - *Tapes with less than 4 seconds of non-recorded interval between tracks.*
  - *Tapes with high levels of noise between tracks.*
  - *Tapes of classical music or other types of recording where very quiet passages may continue for several seconds, or where the recorded sound is interrupted for several seconds' duration.*
  - *Tapes of spoken voices, comedy routines, and other similar tapes in which recorded voices may be interrupted or be discontinuous.*
  - *Tapes with tracks including portions of very low recording levels which continue for durations of 4 seconds or more.*
  - *Any tape in which the recording level continues at a very low level for periods of 4 seconds or more.*



RECORDING ONTO A CASSETTE TAPE

Recording on Cassette Tapes (TAPE II only)

- Recording cannot be performed on tape cassettes whose accidental erasure prevention tabs have been broken.
- When loading a tape for recording, forward the tape for five seconds or so, to be sure the non-recordable leader portion is passed.
- Tapes usable for recording on this unit include Type I (normal) and Type II (high-position/CrO_2) tapes; Type IV (metal) tapes cannot be recorded.

1. **Load a non-recorded tape into the deck TAPE II, and close the cassette door.**
   When a tape is newly inserted into the deck, recording begins from the forward direction.
2. **Set the Dolby NR selector button as desired (see page 32).**
3. **Select the playback component to record.**
   - Since the selected component automatically begins playing when the unit's CD/LD input selector button is pressed, be sure to first press the ▮▮ button, then press the Fast forward/rewind button if desired to search for the track you wish to record.
   - TAPE I and TAPE II cannot be selected. For recording from TAPE I to TAPE II, see page 32.
   - For normal recording, we recommend you set the SOURCE DIRECT button to the ON position.
4. **Press the ●/■ button to begin recording.**
   The REC indicator lights.
   Press the ●/■ button once again to stop the recording.
   - When recording from a CD/LD, the CD/LD's pause function will automatically be released and recording will begin.
5. **To stop the recording, press either the ●/■ button or the remote control unit's TAPE II ■ button.**

NOTES:

- *The input selector (function selector) cannot be operated during recording.*
- *If the SOURCE DIRECT button is in the OFF position, the recording will be made under the same conditions audible from the speakers during recording.*
- *The CD/LD disc trays do not open during recording.*

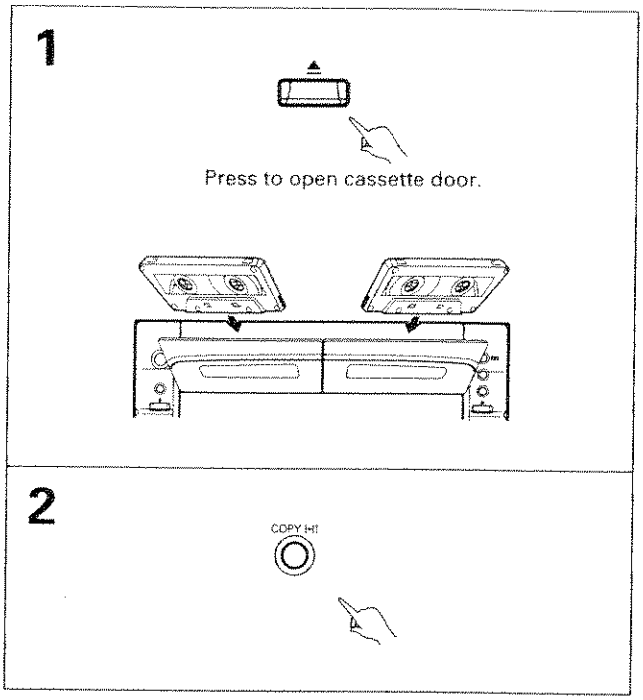
About the BEAT CUT function:

When recording an AM broadcast with high levels of noise, try the following procedures to reduce noise:

1. Turn off the power to the unit.
2. While holding the Dolby NR button depressed, tap the power switch lightly to turn on the power (the Beat Cut indicator will light on the display).
   Repeat the above procedures to cancel the Beat Cut function.

Recording Level

The recording level is set automatically on this unit..



COPYING TAPES

Copying the Contents of TAPE I to TAPE II

- Recording from one tape to another is possible only with this tape copy function.
- Recording is performed on TAPE II.
- Microphone mixing cannot be performed during tape copying.
- When using the tape copy function, the resulting recording will be made under the identical conditions as the original; recording with the addition of SFC and P.BASS cannot be performed.

1. **Load a prerecorded tape into the TAPE I deck, and a non-recorded tape into Tape II, then close the cassette doors.**
   Use tapes of the same length (playing time).
2. **Press the COPY I ► II button.**
   Copying is performed at normal playback speed.
3. **To cancel the tape copy function midway through, press either the ●/■ button or the remote control unit's TAPE II ■ button.**

During tape copying, playback on TAPE I and recording on TAPE II both begin from the forward (►) direction. As a result, be sure that the sides you wish to playback and record are loaded correctly in the respective decks.

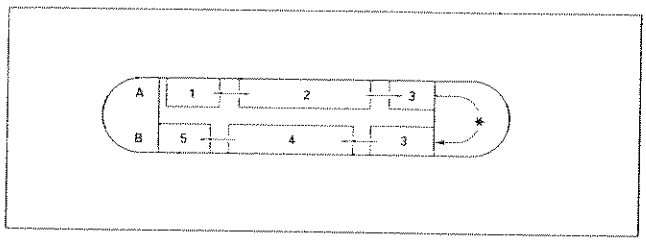
NOTES:

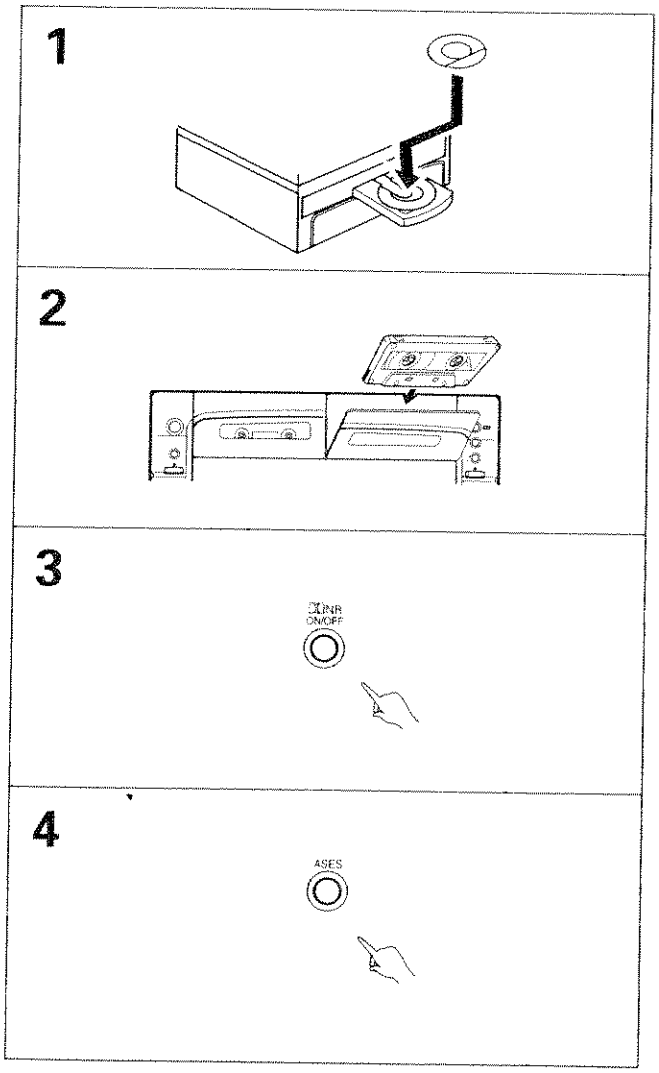
- *During tape copying, tapes will be recorded under the same noise reduction conditions as the original playback tape, regardless of the setting of the Dolby NR selector button.*
- *To listen to the playback tape sound while recording, set the input selector button to TAPE I, and adjust the Dolby NR selector button to match the conditions of the playback tape.*
- *Be sure to forward the tape for recording past its initial leader portion before beginning.*

About the Dolby Noise Reduction System

The Dolby NR system is provided to reduce the high-frequency "hiss" sound ordinarily produced during playback. The Dolby NR system operates by slightly boosting part of the high-frequency range most noticeable as noise, then by attenuating that boosted range by the same amount during playback, thus returning it to its original level and simultaneously reducing the level of noticeable hiss.

The Dolby NR system used on this unit is type "B." Dolby type "B" noise reduction provides noise-reduction effects in the high range, thus reducing tape hiss noise and expanding dynamic range. When a tape has been recorded using the Dolby type "B" NR system, be sure to use the same type "B" NR mode during playback. High quality playback cannot be produced when a tape recorded with the Dolby NR system is played back with the Dolby NR selector button in the OFF position, or when a tape recorded without any Dolby NR, or with Dolby "C" or "S" types of NR system are played back with the Dolby NR selector button in the ON position.





A.S.E.S. (Auto Synchro Editing System)

- This function allows you to perform automated editing and recording of music from compact discs (cannot be used with LDs, or CDVs).
- Using the A.S.E.S. function allows recording of CD contents in any desired order.

A.S.E.S.

When recording of a tape side ends midway through a track, the same track is rerecorded from the beginning on the other side of the tape.

A, B: indicates the side of the tape.
1–5: indicates the number of the track.
*: indicates the leader part of the tape.

Before beginning recording:

- Recording cannot be performed if tape cassette's accidental erasure prevention tab is broken out.
- To cancel A.S.E.S. midway through, press the remote control unit's TAPE II ■ button.

NOTES:

- *The A.S.E.S. function cannot be used with LDs or CDVs. To record material from such discs, see page 31.*
- *The A.S.E.S. operation can also be started after entering a program in memory; program the desired tracks by following the procedure on page 26, then begin the A.S.E.S. operation.*

Using the A.S.E.S. Function

- Begin the A.S.E.S. operation when both CD and tape are in the stopped condition.

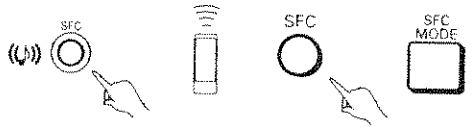
1. **Load a CD.**
   If you wish to record tracks in a certain order, load the program in memory.
2. **Load a non-recorded tape in TAPE II, and close the cassette door.**
   Recording begins from the forward (►) direction.
   For normal recording, we recommend you set the SOURCE DIRECT button to the ON position.
3. **Set the Dolby NR selector button to the desired position.**
4. **Press the ASES button.**

NOTES:

- *When the A.S.E.S. operation is begun with the tape in the stop condition, a non-recorded interval is created on the tape automatically before recording begins.*
- *Recording can also be performed with the addition of SFC, P.BASS, and one-touch karaoke functions.*

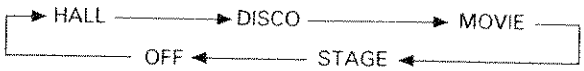
CREATIVE SOUND MANIPULATION

Choosing from Four Sound Fields (Sound Field Control)

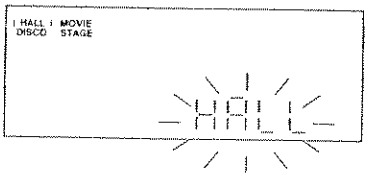


1. Press the SFC button to select the desired sound field.

The setting changes alternately in the following order:



For example, when HALL is selected:



- Sound Field Control (S.F.C.) is a function allowing you to select from among four different sound fields (types of listening atmosphere or ambience), thus creating the realistic feeling you are listening in the selected location.
- The following four sound fields are available:

HALL: The ambience of a concert hall, with lingering reverberation.

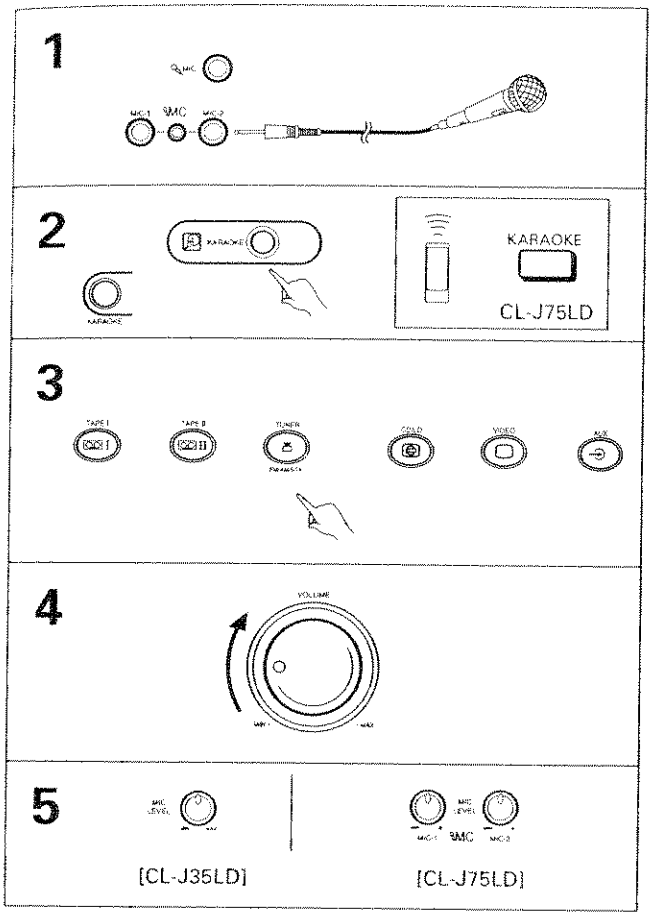
DISCO: The sound of a discotheque with lively beat and powerful bass rhythm.

MOVIE: Reproduces the ambience of a movie theater, especially effective with the conversation and sound effects common in video cassette tapes, LaserDiscs, and movies.

STAGE: The recreated feeling of an intimate live house, with slightly reduced expanse compared to HALL.

NOTE:

When performing this operation, the KEY CONTROL function reverts to the ♮ (natural) mode, and the PRO LOGIC function is also canceled (CL-J75LD only).



ONE-TOUCH KARAOKE FUNCTION

What is One-Touch Karaoke?

This function attenuates the vocal frequency bands of stereo sources (CDs, LDs, tapes, FM, AM broadcasts, etc.). By setting the one-touch karaoke function to ON and singing into a microphone, you can easily enjoy a simplified form of musical accompaniment. (This function, however, merely attenuates the vocal bands, and does not eliminate them entirely. Also, this function does not operate with monaural sources).

- The vocal-attenuation effect will be less pronounced when used with cassette tapes than with CDs. Also, effects may vary in the case of duets and other vocals in which the vocal portions are evenly divided between right and left channels, on tracks with strong echo effects, or in other cases, depending on the source's recording conditions.

1. **Connect a microphone's plug to the MIC jack.**
   Use a microphone equipped with a standard plug.
   - Be careful not to catch the microphone cord in the disc tray or cassette door when closing the tray or door.

   [CL-J75LD]
   When connecting a microphone equipped with a key controller, be sure to connect to the key control jack.
2. **Press the KARAOKE button.**
   To cancel the one-touch karaoke function, press the button again.
3. **Select the desired playback component and begin playback.**
4. **Adjust the playback volume.**
5. **Use the MIC LEVEL control for the connected microphone to adjust the volume appropriately.**
   - When this operation is performed, the SFC mode is canceled (on the CL-J75LD model, the PRO LOGIC function is also canceled).

■ You Can Enjoy the Following Kinds of Karaoke Music:

Multiplex karaoke:
Using multiplex karaoke, you can perform karaoke concerts, or practice your own singing to the accompaniment of music sources including vocal parts.

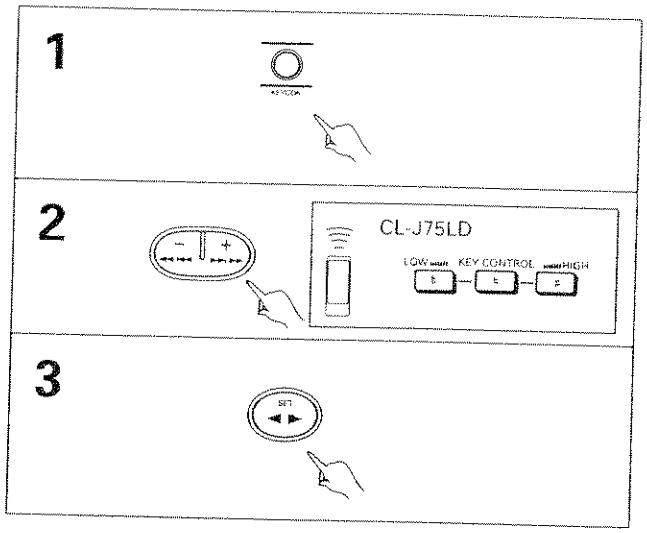
Karaoke lessons:
①Practice same song over and over (Chapter/Track repeat; see page 25).
②Practice the same section of a song over and over (A-B repeat; see page 25).

24 tracks program:
You can program up to 24 tracks in any order for your sing-along fun (program playback; see page 26).

Track search:
Search quickly for a desired track (see page 22).

In the case of feedback ("howling"):
If microphone-speaker feedback (a high-pitched "howling" sound) occurs, perform the following:
1. Rotate the MIC LEVEL control to the left to reduce the microphone level.
2. Separate the microphone from the speaker as far as possible.
3. Lower the sound volume.

If you miss the first beat of the song (CL-J75LD only):
- If you miss the first beat of the song and wish to return to the beginning, or if you wish to sing the same portion of the song repeatedly, press the ONCE button; each time the button is pressed, the video and audio playback is returned to a slightly earlier point.
  Note that cassette tape karaoke and video karaoke cannot be used in this way. If you use a microphone equipped with key controller, you can control this function using the microphone's ONCE MORE button.



TO ADJUST THE MUSICAL PITCH

(CL-J75LD only)

1. **Press the key control button (KEYCON).**
   (Depending on the source, the sound may be temporarily interrupted).
2. **Use the fast forward/reverse buttons (–, +) to raise or lower the pitch as desired.**
   When using the remote control unit, use the KEY CONTROL buttons to adjust the pitch.
   ♯ : Pitch is raised.
   ♮ : Standard pitch
   ♭ : Pitch is lowered.
   Perform this operation while viewing the results on the display.
   - If your microphone is equipped with a key-controller, you can use it to control the music pitch as desired.
3. **Press the SET button.**

- Use the ECHO LEVEL control to adjust the amount of echo produced.
- When this operation is performed, the PRO LOGIC function is canceled.

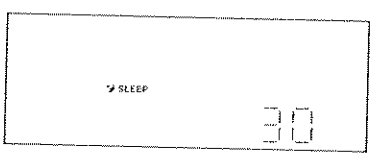
SLEEP TIMER

- This function automatically turns of the unit power when the set time is reached.
- Settings are performed with the remote control unit. Set the CD/LD•SYSTEM selector switch to the SYSTEM side.

Press the remote control unit's SLEEP button.
Each time the button is pressed, the mode changes in the following order:

AUTO (Recording, playback only) → 90 min. → 60 min. → 30 min. → 0 (OFF)

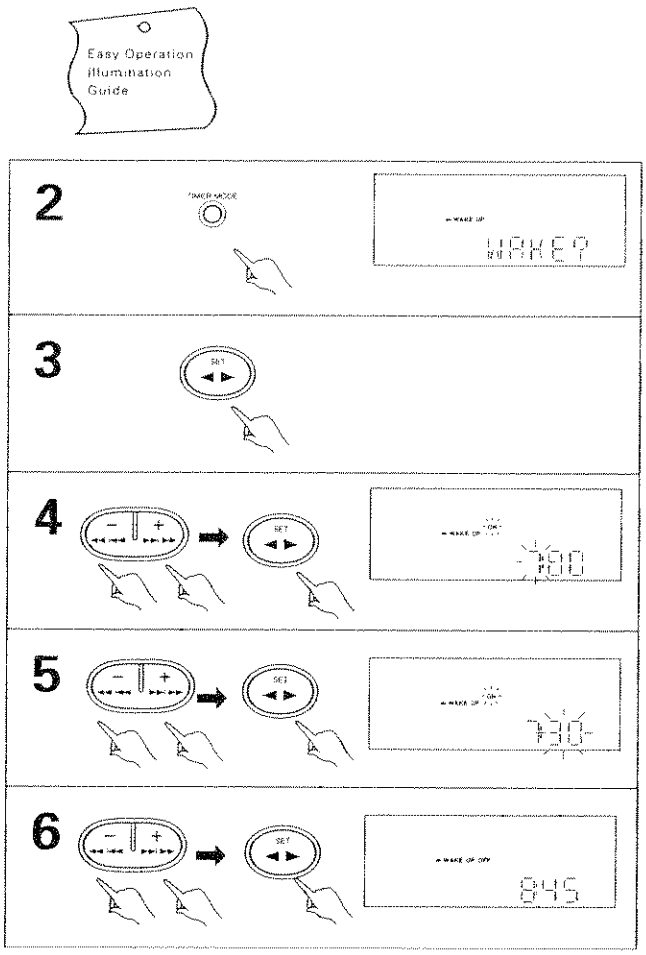
Example: To turn off power thirty minutes from now:

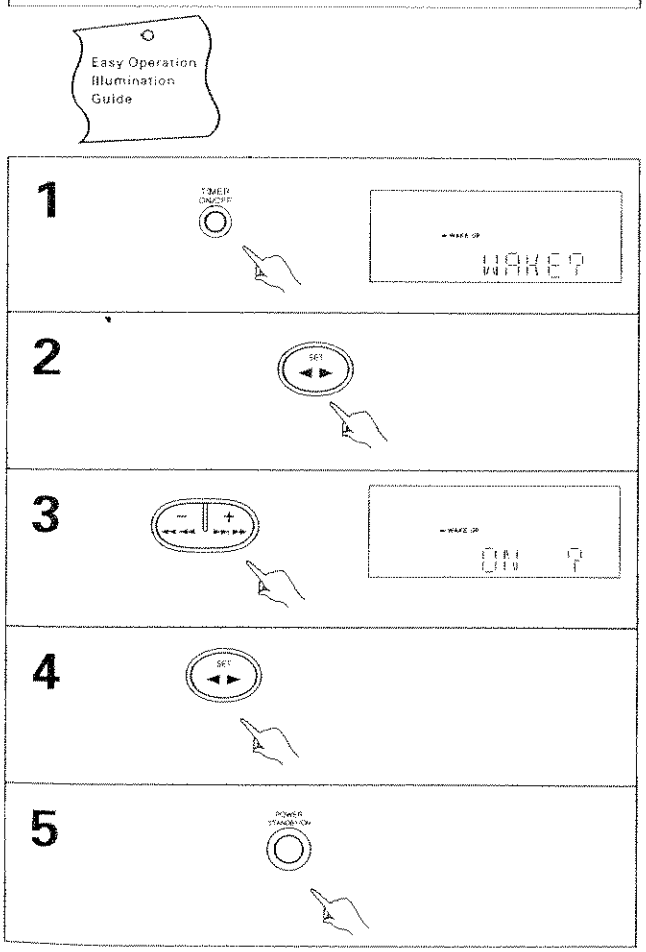


During operation of the sleep timer, pressing the SLEEP button once will cause the remaining time to be displayed on the screen. Press once again to change the time.

To set to auto sleep:

- During CD playback, or during recording or playback of a cassette tape, press the SLEEP button and select AUTO; in this way, power will be turned off automatically at the conclusion of the recording or playback.
- When relay playback has been selected, power will be turned off at the conclusion of the currently playing tape side.





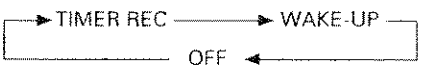
TIMER PLAYBACK

- Use this function to begin and end playback at the set times (unless canceled, this function will operate at the same time every day).
- Perform timer settings after turning on the unit power.
- Set the input selector to the source you wish to play back at the set time.

Example: To set the wake-up timer for playback between 7:30 to 8:45:

1. **Set the unit to the condition you wish to playback.**
   For CD: Set the input selector to CD/LD, and load a disc in the tray.
   For radio: Set the input selector to TUNER, and use the station call function to tune in the desired station (see page 19).
   For cassette tape: Set the input selector to TAPE I or TAPE II, and load a prerecorded tape into the corresponding deck.
   Then, adjust volume, tone, etc.

2. **Press the TIMER MODE button, and select [WAKE-UP].**
   Each time the button is pressed, the mode changes as follows:

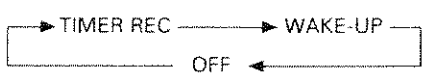


3. **Within five seconds, press the SET button.**
4. **Set the "hour" you wish playback to begin, and press the SET button.**
5. **Set the "minutes" you wish playback to begin, and press the SET button.**
6. **Refer to steps 4 and 5, and set the time (hour:minute) you wish playback to end.**
7. **If a ending time is not set, end of playback will be set automatically for one hour after it begins. The display will show the beginning time, ending time, and function, then return to its original state.**

(Example) When FM is selected

■ To Begin Timer Operation

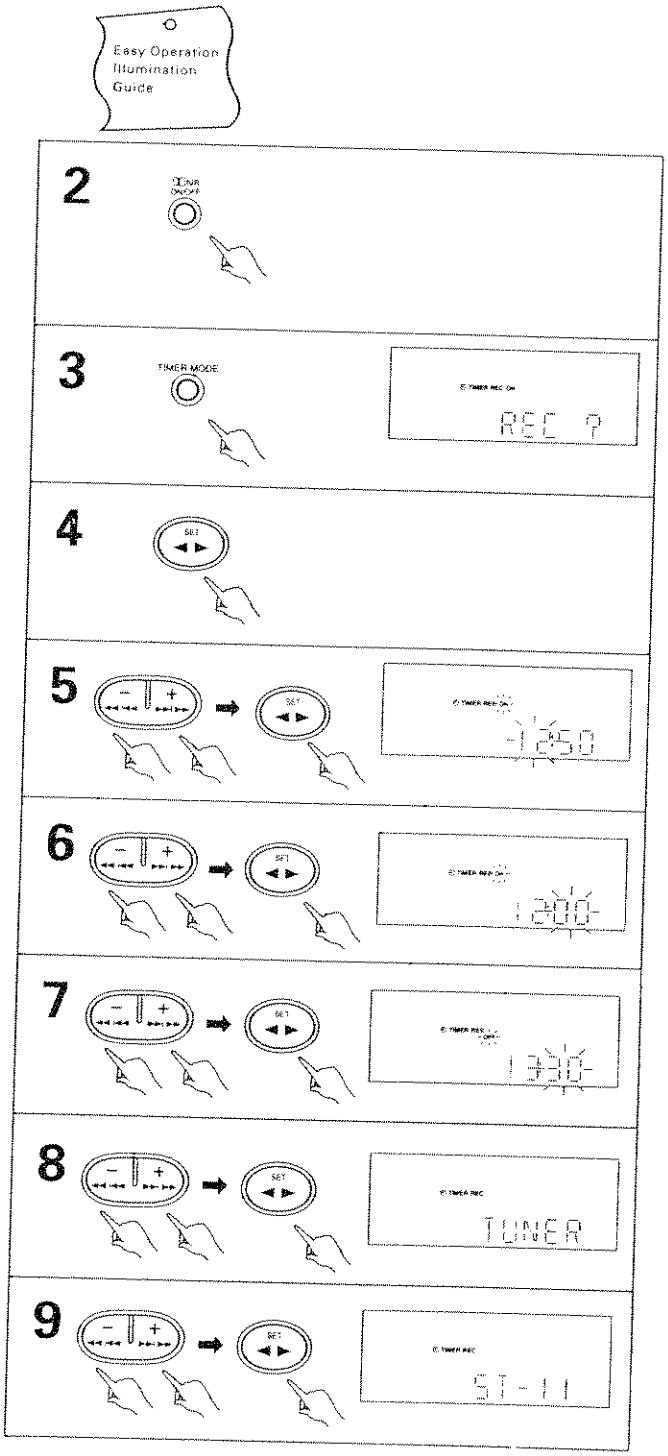
1. **Press the TIMER ON/OFF button and select [WAKE-UP].**
   Each time the button is pressed, the function switches as shown:



2. **Press the SET button.**
3. **Select WAKE-UP ON.**
4. **Press the SET button.**
5. **Press the POWER switch to turn off the power, and set the unit to standby mode.**

NOTE:
Timer playback is not performed if the WAKE-UP indicator is not displayed. The setting contents are memorized, however, so they can be used later merely by turning on the WAKE-UP indicator.

To cancel the timer operation:
After setting the timer, select WAKE-UP OFF in step 3.

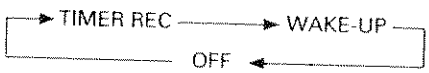


TIMER RECORDING

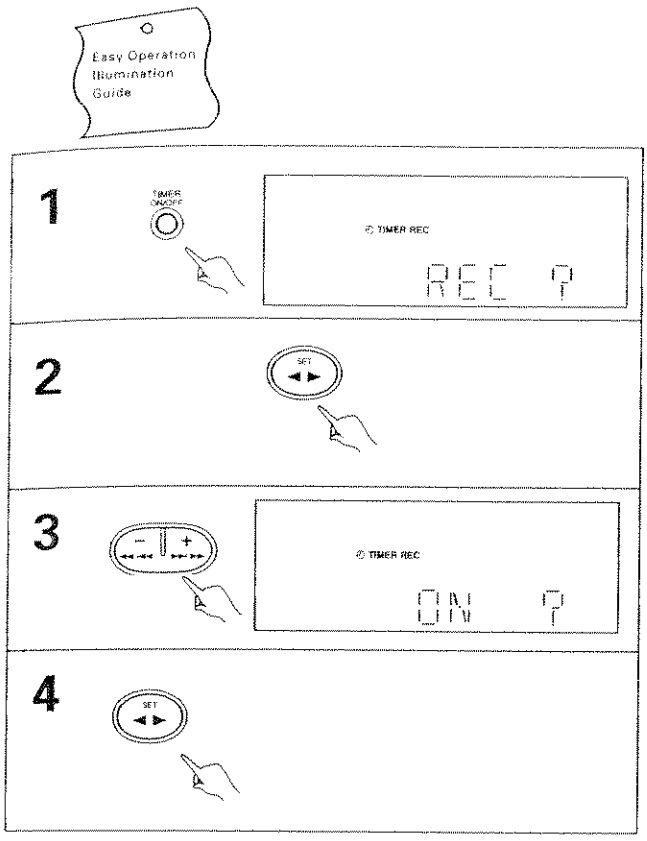
- This function allows you to record FM/AM broadcasts, or an external source at a preset time, thus allowing unattended or late-night recording.
- Turn on the unit's power before setting the timer.

Example: To set the timer for recording between 12:00 and 13:30.

1. **Insert a non-recorded cassette tape into TAPE II.**
   - Insert the tape in the cassette door with the side to be recorded facing outward.
   - Recording will begin from the forward (►) direction.
   - Check to confirm that the tape cassette's accidental erasure prevention tabs have not been broken.
   - Advance the tape beyond its non-recordable leader section before beginning recording.
2. **Set the cassette deck's Dolby NR selector button to ON/OFF as desired.**
3. **Press the TIMER MODE button and select [TIMER REC].**
   Each time the button is pressed, the mode changes as follows:



4. **Within five seconds, press the SET button.**
5. **Set the "hour" you wish recording to begin, and press the SET button.**
6. **Set the "minutes" you wish recording to begin, and press the SET button.**
7. **Refer to steps 5 and 6, and set the time (hour:minute) you wish recording to end.**
8. **Select the input source (TUNER, VIDEO, AUX).**
   If TUNER is selected, go to step 9.
   If VIDEO or AUX is selected, settings are now completed.
9. **Tune in the broadcast station you wish to record and press the SET button.**



■ Start the Timer Function

1. **Press the TIMER ON/OFF button and select [TIMER REC].**
   Each time the button is pressed, the mode changes as follows:

   TIMER REC → WAKE-UP → OFF →

2. **Press the SET button.**
3. **Select TIMER REC ON**
4. **Press the SET button.**

About timer recordings and cancellation:

- Confirm that the TIMER REC indicator is lighted in the display.
- When the timer recording function has been executed once, the function is released (TIMER REC indicator goes out). The setting contents remain recorded in memory, however, so the identical timer recording can be performed again by merely selecting TIMER REC ON so that the TIMER REC indicator lights in the display.

To cancel the timer recording function:
After setting the mode once, go to step 3 and select TIMER REC OFF.

■ Other Timer Functions

To change the contents of timer recording:
To change the timer contents, re-input the timer settings from the beginning.

If you make a mistake midway through the setting procedure:
Press the timer mode button again and re-input the settings from the beginning.

To confirm the timer setting contents:

① **Press the timer mode button:**
Each time the button is pressed, the mode changes in the following order:

TIMER REC → WAKE-UP → OFF →

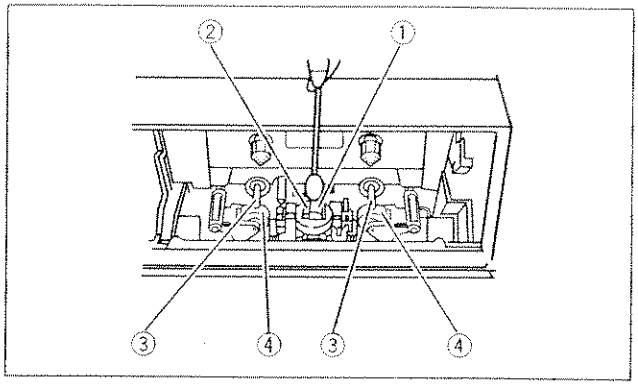
② **Select the contents you wish to confirm:**
About five seconds later, the unit will automatically enter the check mode, and the timer settings will be displayed.

■ Combined Use of Timer Functions

- **To use sleep and wake-up timers together:**
  Example: To go to sleep while listening to a CD (sleep timer), then wake up to an FM broadcast (on timer).
- **Combined use of wake-up timer and timer recording:**
  When wake-up timer and timer recording are set consecutively, an interval of at least one minute must be left between the ending of the first function and the beginning of the second function. If no interval is set, the timer function set to operate afterwards may not operate properly.

NOTES:

- *If the ranges of the timer operations are set to overlap, the earlier set timer operation will be given precedence, and the second timer operation will not function.*
- *If timer ON settings are set to overlap, the functions will operate in the order TIMER REC, followed by WAKE-UP.*
- *During timer operation, if the sleep OFF time overlaps with the range of time in which another timer operation is occurring, the sleep OFF timer will be given precedence.*



① Recording/playback head
② Erasing head
③ Capstan
④ Pinch roller

EVERYDAY HANDLING AND CARE

Care of the Unit

For normal soiling, wipe the case with a soft cloth. In cases of extreme soiling, dip a soft cloth in a solution of 1 part of neutral detergent in 5-6 parts water, and after wringing the cloth well, wipe off the dirt. Then wipe again with a soft dry cloth.
Never use alcohol, benzene or other volatile cleaners, or expose the unit to insecticide sprays, etc., since discoloration or peeling may result. Also, when using a chemically impregnated cleaning cloth, be sure to read the precautionary warnings accompanying the cloth first. When cleaning the unit, be sure to first unplug the unit from its wall outlet.

Cleaning the Head Section

To enjoy perfect performance and high-quality sound, clean the head periodically (once every 10 hours).
The heads, capstan and pinch roller are parts which are liable to get dirty quite easily. In particular, if the heads are dirty, the high frequency components of the sound will not be reproduced and the stereo balance will be impaired, resulting in a deterioration in sound quality. It is therefore recommended that the head section be cleaned regularly.

- Press the eject (⏏) button to open the cassette door.
- Dip a cleaning swab into head cleaning fluid and use it to wipe the heads, capstan, and pinch roller. Be careful the cleaning swab doesn't become entangled. Wait 2–3 minutes till cleaning fluid dries.

NOTE:
This unit uses a head-slant standby system, with the result that the heads are mounted at an angled position.

Demagnetizing the Heads of the Cassette Deck

After using a cassette deck for an extended period, the heads and other ferrous metal parts may gradually become charged with magnetism. Heads can also become magnetized if a magnet, or a screwdriver or other ferrous material is brought near the heads. This kind of head magnetism will cause a reduction in the high frequency response during recording and playback, and also result in additional audible noise. We recommend that you use a commercially available head demagnetizer (head eraser) to regularly demagnetize the heads of the deck.
Whenever demagnetizing the heads, be sure to set the unit's volume control dial to the MIN position. Also, disconnect any headphone plug from its jack. For further details, consult the operating instructions accompanying your head demagnetizer.

TROUBLESHOOTING

Incorrect operations are often mistaken for trouble and malfunctions. If you think that there is something wrong with this component, check the points below. Sometimes the trouble may lie in another component. Investigate the other components and electrical appliances being used.
If the trouble cannot be rectified even after exercising the checks listed below, ask your nearest PIONEER authorized service center or your dealer to carry out repair work.

■ All components

Symptom	Cause	Remedy
No power when power switch is turned on.	• Power plug is disconnected.	• Connect power plug properly.
No sound.	• Speaker wires, connection cables are disconnected from their jacks or terminals. • The unit's input selector button is not set correctly.	• Connect wires and cables properly (see pages 8, 9). • Set the input selector to the component you wish to play.
The spectrum analyzer display appears distorted	• The unit's spectrum analyzer is designed to display the general makeup of frequency bands found within sounds being played, but it may fail to operate accurately in response to some kinds of signals.	

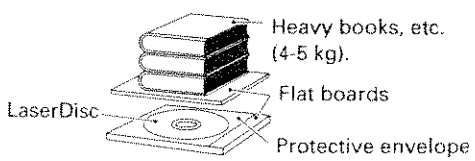
■ Tuner

Broadcasts can't be heard, or sound is distorted.	• Antenna isn't connected. • Antenna position or orientation is poor. • Other electrical appliances (fluorescent lamps, dryers, etc.) are being used nearby.	• Connect antennas correctly (see pages 8, 10). • Change the location or orientation of the antenna. • Stop use of the interfering appliance.
Stereo broadcasts are heard in monaural.	• MONO indicator is lighted.	• Press the remote control unit's MONO/AUDIO button so that the MONO indicator goes out.

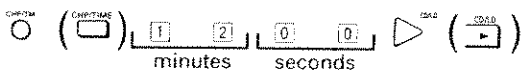
■ Tape deck

Can't record.	• Erasure prevention tabs have been broken out.	• Exchange the tape, or place cellophane tape over the erasure prevention tab holes (see page 5).
When recording over a previously recorded tape, some of the previous program can still be heard.	• Heads are dirty.	• Clean the heads (see page 40).
Playback sound is muddy, high-frequency sound is too harsh.	• The Dolby NR selector is not set to the same position as when the tape was recorded.	• Set the Dolby NR selector to the proper position.
Music search (MS) can't be performed.	• A non-recorded interval of at least 4 seconds does not exist between tracks.	• Use a tape with non-recorded intervals of at least 4 seconds between tracks.
During A.S.E.S. function, the ERR display appears and operation stops.	• Cassettes' erasure prevention tabs have been broken out. • The disc loaded is not a CD. • No CD is loaded.	• Exchange the cassette, or place cellophane tape over the erasure prevention tab holes (see page 5). • Replace the disc with a CD.
No response when tape operation buttons are pressed.	• Input selector is set incorrectly.	• Set the input selector button to the side you wish to operate.
Tapes become tangled in the pinch rollers.	• Tape is longer than C-90 (90 minutes). • Pinch rollers are dirty.	• Do not use tapes longer than C-90 (see page 5). • Clean tape transport mechanism (see page 40).

■ LaserDisc

Disc tray doesn't open.	• Power is off.	• Refer to operating instructions (pages 8, 9), connect power cord properly, then turn power ON.
Disc tray opens after closing.	• Disc is very dirty. • The disc is not set properly in the disc tray. • Dew has formed on internal parts of the player. • Disc is extremely warped.	• Clean disc. • Align the disc properly with the circular grooves in the disc tray. • Remove the disc, turn on the power and allow player to stand for 1-2 hours, or until the dew indicator goes out. • Warped discs cannot be used. ⇨ A certain degree of LD warping can be corrected.
When switching to TV reception, the picture now appears worse than before the LD player was connected, or stripe noise is visible.	• Depending on the condition of the reception signal, some noise may become visible when television reception is attempted while this unit's power is on. This is normal and not a malfunction.	• Turn off the unit's power. ⇨ If the condition does not improve, check the antenna. Also consider use of a commercially available signal booster.
The disc revolves, but no picture appears, or the picture quality is extremely distorted.	• Television (monitor) isn't turned on. • Connections are mistaken. • Plugs are not inserted fully, or are disconnected.	• Turn on power. • Connect all cables correctly. • Check all connection plugs.
When playing a Laserdisc, audio can be heard but no video is visible.	• The television is not connected properly to this unit.	• Check connections and reconnect properly (see pages 8, 9).
Some discs have poor quality and distortion.	• Discs are extremely dirty. • Discs are severely scratched. • Disc is severely warped.	• Clean the discs. • Do not use scratched discs. • Repair the warp (LD only). ⇨ Insert the LaserDisc in its envelope and place between two flat boards, then place 4-5 kg of weights on top for about one day. Some degree of warping can be corrected in this way. 
Sound rises and falls.	• A disc without the CX mark is being played with the CX sound turned ON.	• Press the remote control unit's MONO/AUDIO button (confirm that CX OFF appears in monitor display).
Some still images are shaky.	• Even with standard discs, parts depicting rapid motion may appear blurred when viewed as still images. This is not a malfunction or indication of a poor disc.	
Can't perform chapter skip, chapter program, or chapter number search.	• The disc has not been recorded with chapter numbers.	• Chapter functions cannot be used with discs not originally recorded with chapter numbers.
Search takes too long (more than 40 seconds).	• Some discs require more time to read sub-codes, but this is not a malfunction.	• If too much time is required, press the remote control unit's CLEAR button. ⇨ In this case, the search results may differ somewhat from the targeted search scene.

■ LaserDisc

Symptom	Cause	Remedy
Some discs require long times to begin playing, or they don't start at all.	• An error may have occurred in the reading of sub-codes (not a malfunction).	• Press the unit's stop button to stop playback, then press the play button once again. Try several times if necessary until playback begins.
During A-B repeat, the player takes too long to return to point A.	• Some discs require more time to read sub-codes, but this is not a malfunction.	• Press the remote control unit's CLEAR button; a point close to point A will be shown, but A-B repeat will be canceled.
During time number search, a scene different from the designated time number appears.	• Press the remote control unit's DISPLAY button and confirm whether the disc has both minute and second codes, or minutes only, then repeat the operation. Example: Searching for a point 12 minutes On a disc not recorded with second codes: On a disc with second codes: 	

■ Karaoke

During one-touch karaoke, the vocalist sound isn't attenuated.	• The disc or tape is recorded so that the voice does not appear to come from the center.	• The one-touch karaoke function cannot be used with some discs or tapes to attenuate vocal levels.

■ Compact disc playback

Discs stop immediately after attempting playback.	• The disc is loaded upside down. • The disc is extremely dirty. • Disc has large scratches or warps. • The disc isn't set properly in the disc tray.	• Always load discs with the label side up. • Clean the disc. • Discard the disc. • Align the disc properly with the circular grooves in the tray.

■ Other

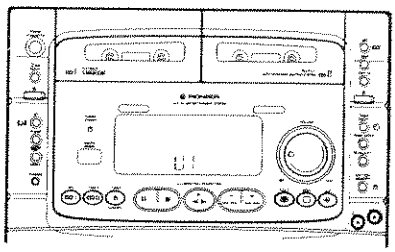
Timer operation doesn't work.	• The current clock time hasn't been set properly.	• Set current time properly.
Remote control unit doesn't work.	• The remote control unit's batteries are exhausted. • A fluorescent lamp is located too near the remote signal sensor on the main unit.	• Replace with new batteries. • Remove the fluorescent lamp farther away from the remote signal sensor.

- Visual noise may be produced if this unit is installed too near a television set. This is especially prevalent when using an indoor antenna; in this case, install an outdoor antenna, or place more distance between the unit and the television set.
- Abnormal functioning of this unit may be caused by lightning, static electricity, or other external interference. To restore normal operation, turn the power off and then on again, or unplug the AC power cord and then plug it in again.

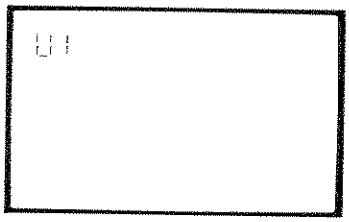
This unit is provided with a self-diagnostic function (during CD/LD playback)

If a malfunction is detected during operation, an error code (service number) is automatically displayed on the screen as shown. Consult the list below and follow the steps indicated.

Unit display



Television display



Error code	Symptom	Remedy
U1 U2	• Disc isn't loaded properly • If disc is loaded properly, disc may be excessively dirty.	• Align disc properly with circular grooves in disc tray. • Clean disc with soft cloth. • Try playback once more.
F5 P2 L3 E4	• Two discs have been loaded on top of each other. • If only one disc is loaded, it may be excessively dirty. • (Condition differs depending on number following the P, F, L, E letters.)	• Load only one disc at a time. • Clean disc with soft cloth. • Press the play (◄ ►) button again. If the same code appears again, a malfunction may have occurred. When you call your dealer or Pioneer service center, furnish the contents of the unit display and the television display (service number). For example, if the "E4" appears, tell your dealer that "service number E4" appeared on the screen
H0 H1 H2	• Probably malfunction.	• When you call your dealer or Pioneer service center, furnish the contents of the unit display and the television display (service number). For example, if the "H1" appears, tell your dealer that "service number H1" appeared on the screen.

POWER-CORD CAUTION

Handle the power cord by the plug. Do not pull out the plug by tugging the cord and never touch the power cord when your hands are wet as this could cause a short circuit or electric shock. Do not place the unit, a piece of furniture, etc., on the power cord, or pinch the cord. Never make a knot in the cord or tie it with other cords. The power cords should be routed such that they are not likely to be stepped on. A damaged power cord can cause fire or give you an electrical shock. Check the power cord once in a while. When you find it damaged, ask your nearest PIONEER authorized service center or your dealer for a replacement.

SPECIFICATIONS

Amplifier

[CL-J35LD]

Continuous power output (RMS)
..... 50W + 50W (1kHz, T.H.D. 10% 8Ω)
Continuous power output (DIN)
..... 40W + 40W (1kHz, T.H.D. 1% 8Ω)
Music power (DIN) ..... 60W + 60W (1kHz, T.H.D. 1% 8Ω)

[CL-J75LD]

Continuous power output (RMS)
- Front ..... 50W + 50W (1kHz, T.H.D. 10% 8Ω)
- Rear ..... 7.5W + 7.5W (1kHz, T.H.D. 10% 16Ω)
- Center ..... 15W (1kHz, T.H.D. 10% 8Ω)

Continuous power output (DIN)
- Front ..... 40W + 40W (1kHz, T.H.D. 1% 8Ω)
- Rear ..... 5.5W + 5.5W (1kHz, T.H.D. 1% 16Ω)
- Center ..... 11W (1kHz, T.H.D. 1% 8Ω)

Music power (DIN)
- Front ..... 65W + 65W (1kHz, T.H.D. 1% 8Ω)

● *Above specifications are for when power supply is 230V.*

FM tuner

Frequency range ..... 87.5 — 108 MHz
Antenna input ..... 75Ω unbalanced

AM tuner

Frequency range
- 9 kHz step ..... 531 kHz — 1,602 kHz

Antenna ..... Loop antenna (included)

Spectrum analyzer

Central frequencies 100Hz, 330Hz, 1kHz, 3.3kHz, 10kHz

Stereo double cassette deck

Tracks ..... 4-track, 2-channel stereo
Frequency response
- Type II (High-position, CrO_2) ..... 20Hz — 16,000Hz ±6dB
- Type I (Normal) ..... 20Hz — 16,000Hz ±6dB

Signal-to-Noise ratio 56dB
(Peak recording level, audible compensation)
DOLBY "B" NR ON ..... 10dB improvement at 5kHz

Speakers

Type ..... Bass reflex bookshelf type, magnetically shielded
Speakers used (2-way)
- Woofer ..... 14 cm (cone type)
- Tweeter ..... 6.6 cm (cone type)

Nominal impedance 8Ω
Music power (DIN) 60W

Compatible LaserDisc Player

Type ..... LaserDisc and Compact Disc digital audio system.
Laser used ..... Semiconductor laser, wavelength 780nm
Permissible operating temperature range ..... +5°C — +35°C
Permissible operating humidity ..... 5% — 85%
(without condensation)
Format ..... PAL/NTSC specification

Laser Vision Discs

PAL disc

*Maximum playing times
- 30 cm active play (CAV) disc ..... 72 min./both sides
- 30 cm long play (CLV) disc ..... 2 hours/both sides
- 20 cm active play (CAV) disc ..... 28 min./both sides
  14 min./one side
- 20 cm long play (CLV) disc ..... 40 min./both sides
  20 min./one side

Spindle motor speed
- Active play (CAV) disc ..... 1,500 rpm
- Long play (CLV) disc ..... 1,500 rpm (inner circumference)
  to 570 rpm (outer circumference)
  (For a 30 cm disc)

NTSC disc

*Maximum playing times
- 30 cm standard play (CAV) disc ..... 1 hour/both sides
- 30 cm extended play (CLV) disc ..... 2 hours/both sides
- 20 cm standard play (CAV) disc ..... 28 min./both sides
  14 min./one side
- 20 cm extended play (CLV) disc ..... 40 min./both sides
  20 min./one side

- Standard play (CAV) disc ..... 1,800 rpm
- Extended play (CLV) disc ..... 1,800 rpm
  (inner circumference)
  to 600 rpm (outer circumference)
  (For a 30 cm disc)

Compact Discs

Disc ..... Diameter: 12 cm, 8 cm, Thickness: 1.2mm
Rotation direction (pickup side) ..... Counterclockwise
Linear speed ..... 1.2 ~ 1.4m/sec
*Maximum playing time ..... 74 min. 12 cm discs
20 min. 8 cm discs
(For stereo playback)

Compact Discs with Video

Disc ..... Diameter: 12 cm, Thickness: 1.2mm
Rotation direction (pickup side) ..... Counterclockwise
Linear speed ..... Audio portion: 1.2 ~ 1.4m/sec
Video portion: 11 ~ 12m/sec
*Maximum playing time ..... Video portion: 5 min. (CLV)
Audio portion: 20 min. (Digital)

* *Actual playback time differs for each disc.*

Audio output

Channels ..... 2 channel
Digital response
- Frequency response ..... 4Hz — 20kHz
- Signal-to-Noise ratio ..... 100dB (EIAJ)
- Dynamic range ..... 96dB (EIAJ)

Video output

Level ..... 1Vp-p nominal, sync, negative, terminated
Impedance ..... 75Ω unbalanced
Jack ..... RCA jack

Electrical, etc.

Power requirements
- European model ..... AC 220 — 230V, 50/60Hz
- U.K. model ..... AC 230V, 50Hz

Power consumption
- CL-J35LD 260W
- CL-J75LD 310W

Dimensions
- External dimensions ..... 320 (W) x 290 (H) x 403 (D) mm (CL-J35LD)
  320 (W) x 350 (H) x 403 (D) mm (CL-J75LD)
- Weight ..... 11.6 kg (CL-J35LD)
  12.2 kg (CL-J75LD)

Speakers
- External dimensions ..... 190 (W) x 350 (H) x 209 (D) mm
- Weight ..... 3,2 kg

Accessories

- Operating Instructions 1
- FM T-type antenna 1
- AM loop antenna 1
- Remote control unit 1
- Batteries (R03/AAA) 2
- Speaker cord 2
- Video cable 1

NOTE:

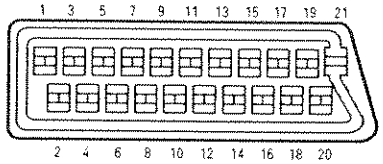
Specifications and design subject to possible modification without notice due to improvements.

Other Terminals

AV connector output ..... 21-pin connector x 1

This connector provides the video and audio signals for connection to a colour video TV monitor (or TV set) which has a "AV CONNECTOR" terminal.

21-pin connector assignment



PIN no.		
	1 Audio 2/R out	
	3 Audio 1/L out	
	4 GND	17 GND
	8 Status	19 Video out
		21 GND

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<94K02RYON01> Printed in Japan <RRB1158-A>